

<210> 912
 <211> 778
 <212> PRT
 <213> Homo sapiens

<400> 912

Met Leu Ser Ser Leu Gly Cys Leu Leu Leu Cys Gly Ser Ile Thr Leu
 1 5 10 15

Ala Leu Gly Asn Ala Gln Lys Leu Pro Lys Gly Lys Arg Pro Asn Leu
 20 25 30

Lys Val His Ile Asn Thr Thr Ser Asp Ser Ile Leu Leu Lys Phe Leu
 35 40 45

Arg Pro Ser Pro Asn Val Lys Leu Glu Gly Leu Leu Leu Gly Tyr Gly
 50 55 60

Ser Asn Val Ser Pro Asn Gln Tyr Phe Pro Leu Pro Ala Glu Gly Lys
 65 70 75 80

Phe Thr Glu Ala Ile Val Asp Ala Glu Pro Lys Tyr Leu Ile Val Val
 85 90 95

Arg Pro Ala Pro Pro Pro Ser Gln Lys Lys Ser Cys Ser Gly Lys Thr
 100 105 110

Arg Ser Arg Lys Pro Leu Gln Leu Val Val Gly Thr Leu Thr Pro Ser
 115 120 125

Ser Val Phe Leu Ser Trp Gly Phe Leu Ile Asn Pro His His Asp Trp
 130 135 140

Thr Leu Pro Ser His Cys Pro Asn Asp Arg Phe Tyr Thr Ile Arg Tyr
 145 150 155 160

Arg Glu Lys Asp Lys Glu Lys Lys Trp Ile Phe Gln Ile Cys Pro Ala
 165 170 175

Thr Glu Thr Ile Val Glu Asn Leu Lys Pro Asn Thr Val Tyr Glu Phe
 180 185 190

Gly Val Lys Asp Asn Val Glu Gly Gly Ile Trp Ser Lys Ile Phe Asn
 195 200 205

His Lys Thr Val Val Gly Ser Lys Lys Val Asn Gly Lys Ile Gln Ser
 210 215 220

Thr Tyr Asp Gln Asp His Thr Val Pro Ala Tyr Val Pro Arg Lys Leu
 225 230 235 240

Ile Pro Ile Thr Ile Ile Lys Gln Val Ile Gln Asn Val Thr His Lys
 245 250 255

Asp Ser Ala Lys Ser Pro Glu Lys Ala Pro Leu Gly Gly Val Ile Leu
 260 265 270

Val His Leu Ile Ile Pro Gly Leu Asn Glu Thr Thr Val Lys Leu Pro
 275 280 285

Ala Ser Leu Met Phe Glu Ile Ser Asp Ala Leu Lys Thr Gln Leu Ala
290 295 300

Lys Asn Glu Thr Leu Ala Leu Pro Ala Glu Ser Lys Thr Pro Glu Val
305 310 315 320

Glu Lys Ile Ser Ala Arg Pro Thr Thr Val Thr Pro Glu Thr Val Pro
325 330 335

Arg Ser Thr Lys Pro Thr Thr Ser Ser Ala Leu Asp Val Ser Glu Thr
340 345 350

Thr Leu Val Leu Ser Lys Arg Thr Pro Glu Thr Leu Gln Thr Ile Leu
355 360 365

Ile Pro Gln Phe Glu Leu Pro Leu Ser Thr Leu Ala Pro Lys Ser Leu
370 375 380

Pro Glu Phe Pro Glu Ala Lys Thr Pro Phe Pro Phe Glu Lys Pro Arg
385 390 395 400

Gly Thr Leu Ala Ser Ser Glu Lys Pro Trp Ile Val Pro Thr Ala Lys
405 410 415

Ile Ser Glu Asp Ser Lys Val Leu Gln Pro Gln Thr Ala Thr Tyr Asp
420 425 430

Val Phe Ser Ser Pro Thr Thr Ser Asp Glu Pro Glu Ile Ser Asp Ser
435 440 445

Tyr Thr Ala Thr Ser Asp Arg Ile Leu Asp Ser Ile Pro Pro Lys Thr
450 455 460

Ser Arg Thr Leu Glu Gln Pro Arg Ala Thr Leu Ala Pro Ser Glu Thr
465 470 475 480

Pro Phe Val Pro Gln Lys Leu Glu Ile Phe Thr Ser Pro Glu Met Gln
485 490 495

Pro Thr Thr Pro Ala Pro Gln Gln Thr Thr Ser Ile Pro Ser Thr Pro
500 505 510

Lys Arg Arg Pro Arg Pro Lys Pro Pro Arg Thr Lys Pro Glu Arg Thr
515 520 525

Thr Ser Ala Gly Thr Ile Thr Pro Lys Ile Ser Lys Ser Pro Glu Pro
530 535 540

Thr Trp Thr Thr Pro Ala Pro Gly Lys Thr Gln Phe Ile Ser Leu Lys
545 550 555 560

Pro Lys Ile Pro Leu Ser Pro Glu Val Thr His Thr Lys Pro Ala Pro
565 570 575

Lys Gln Thr Pro Arg Ala Pro Pro Lys Pro Lys Thr Ser Pro Arg Pro
580 585 590

Arg Ile Pro Gln Thr Gln Pro Val Pro Lys Val Pro Gln Arg Val Thr
595 600 605

[illegible]

```

<400> 914
Met Asn His Leu Ser Ile Ser Ile Ala Leu Phe Leu Leu Cys Cys Val
  1                      5                      10                      15
His Leu Ser Leu Gly Leu Ser Val Phe Pro Phe Gln Glu Asp Arg Ser
      20                      25                      30
Val

```

```

<400> 915
Met Asn Tyr Leu His Cys Asn Val Leu Leu Thr Leu Phe Cys Leu Leu
  1                      5                      10                      15

Phe Leu Leu His Ser Cys Ile Lys Ile Ile Lys His His Ser Gln Ala
      20                      25                      30

Lys Arg Thr Arg Phe Pro Ser His Ile Ser His Lys Gly Glu Ala Asn
      35                      40                      45

Thr His Gln Gly Gly Asn Tyr Thr Glu Leu Gly Trp Gly Leu Asp Ile
      50                      55                      60

Tyr Phe Thr Ser Glu Leu Phe Ile Ser Ala Val Asn Leu Gly Glu Gly
      65                      70                      75                      80

Leu Gly Glu Val Leu Ser Gly Glu Gln Arg Gly Pro Gly Gly Lys Leu
      85                      90                      95

Met Lys Thr Ser Asp Asp
      100

```


Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in both studies involves 'Participants' and 'Conditions'. The 'Conditions' are 'Control' and 'Intervention'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'.

```
<210> 917
<211> 33
<212> PRT
<213> Homo sapiens
```

```
<210> 918
<211> 33
<212> PRT
<213> Homo sapiens
```

505

Figure 1. Schematic representation of the experimental design. The first part of the study was a pretest in which the effect of the number of items on the number of items recalled was tested. The second part of the study was a main experiment in which the effect of the number of items on the number of items recalled was tested. The third part of the study was a posttest in which the effect of the number of items on the number of items recalled was tested.

Val Asp Pro Arg Val Arg Thr Ser Ser Arg Ser Arg Ala Ala Ala Leu
1 5 10 15

Phe Asn Pro Ile Gln Gln Tyr Ser Leu Phe Pro Leu Lys Ser Ser Gly
 35 40 45

Thr Cys Ser Ile Ser Leu Phe Cys Met Arg Gly Leu Tyr Phe Cys Leu
50 55 60

Gly Val Val Ile Cys Thr His Ala Ile Leu Leu Lys Pro Ser Cys Leu
65 70 75 80

Val Leu Phe Leu Glu Ser Phe Phe Phe Pro Val Leu Met Tyr Ala Gly
85 90 95

Phe Gly Asn Ser Ser
100

```
<210> 920
<211> 60
<212> PRT
<213> Homo sapiens
```

Met Arg Lys Trp Gly Leu Met Lys Leu Ile Ala Ser Met Met Gln Pro
1 5 10 15

Val Leu Leu Glu Leu Leu Ser Val Trp Arg Lys Glu Gly Arg Asp Ser
20 25 30

Arg Asn Ile His Asp Ser His Ser Met Tyr Val Leu Arg Lys Arg Leu
35 40 45

Ser Gly Ser Trp Leu Gln Gln Val Cys Thr Leu Leu
50 55 60

```
<210> 921
<211> 79
<212> PRT
<213> Homo sapiens
```

Met Arg Lys Trp Gly Leu Met Lys Leu Ile Ala Ser Met Met Gln Pro
1 5 10 15

Val Leu Leu Glu Leu Leu Ser Val Trp Arg Lys Glu Gly Arg Asp Ser
20 25 30
Arg Asn Ile His Asp Ser His Ser Met Tyr Val Leu Arg Lys Arg Leu
35 40 45
Ser Gly Ser Trp Leu Gln Ala Gly Leu Tyr Ser Thr Val Ile Ser Ala
50 55 60
Ala Leu Ile Leu Glu Ser Pro Arg Ala Cys Leu Pro Ser Lys Gly
65 70 75

<210> 922
<211> 245
<212> PRT
<213> Homo sapiens

<400> 922
Met Ala Asp Val Ser Ala Lys Asp Ser Ser Gln Glu Thr Leu Val Asn
1 5 10 15
Leu Ala Gly Leu Leu Val Ser Leu Leu Met Leu Pro Leu Val Ser Gly
20 25 30
Cys Pro Gly Phe Ser Leu Gly Cys Phe Phe Phe Leu Thr Ala Leu His
35 40 45
Ile Tyr Ala Asn Tyr Arg Ala Val Arg Ala Leu Val Met Glu Thr Leu
50 55 60
Asn Glu Gly Arg Leu Arg Leu Val Leu Lys His Tyr Leu Gln Arg Gly
65 70 75 80
Glu Val Leu Asp Pro Thr Ala Ala Asn Arg Met Glu Pro Leu Trp Thr
85 90 95
Gly Phe Trp Pro Ala Pro Ser Leu Ser Leu Gly Val Pro Leu His Arg
100 105 110
Leu Val Ser Ser Val Phe Glu Leu Gln Gln Leu Val Glu Gly His Gln
115 120 125
Glu Ser Tyr Leu Leu Cys Trp Asp Gln Ser Gln Asn Gln Val Gln Val
130 135 140
Val Leu Asn Gln Lys Ala Gly Pro Lys Thr Ile Leu Arg Ala Ala Thr
145 150 155 160
His Gly Leu Met Leu Gly Ala Leu Gln Gly Asp Gly Pro Leu Pro Ala
165 170 175
Glu Leu Glu Glu Leu Arg Asn Arg Val Arg Ala Gly Pro Lys Lys Glu
180 185 190
Ser Trp Val Val Val Lys Glu Thr His Glu Val Leu Asp Met Leu Phe
195 200 205
Pro Lys Phe Leu Lys Gly Leu Gln Asp Ala Gly Trp Lys Thr Glu Lys

210

215

220

His Gln Leu Glu Val Asp Glu Trp Arg Ala Thr Trp Leu Leu Ser Pro
 225 230 235 240

Glu Lys Lys Val Leu
 245

<210> 923

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 923

Leu Pro Val Gln Asn Gly Cys Pro Glu Ser Ala Met Glu Met Asn Gly
 1 5 10 15

Arg Ala Pro Cys Trp Glu Val Gly Leu Glu Glu Leu Ser Ser Arg Lys
 20 25 30

Leu Thr Ala Gly Pro Gln Phe Pro Ser Glu Pro Gln Ala Pro Ala Pro
 35 40 45

Ser Leu Phe Arg Gln Cys Leu Leu Trp Phe Cys Gly Met Xaa Xaa Gly
 50 55 60

Gly Val Gly Ser Pro Pro Pro Leu Thr Gln Glu
 65 70 75

<210> 924

<211> 186

<212> PRT

<213> Homo sapiens

<400> 924

Met Leu Pro Leu Val Ser Gly Cys Pro Gly Phe Ser Leu Gly Cys Phe
 1 5 10 15

Phe Phe Leu Thr Ala Leu His Ile Tyr Ala Asn Tyr Arg Ala Val Arg
 20 25 30

Ala Leu Val Met Glu Thr Leu Asn Glu Gly Arg Leu Arg Leu Val Leu
 35 40 45

Lys His Tyr Leu Gln Arg Gly Glu Val Leu Asp Pro Thr Ala Ala Asn
 50 55 60

[illegible]

<400> 927
Ser Leu Leu Leu Ser Cys Cys Pro Leu Gly Asn Arg Ala Tyr Gly Ala
1 5 10 15

Ser Met Gln Arg Ser His Arg Glu Ala Gly Asn Gln Gly Pro Gly Arg
35 40 45

Ala Ala Ser Cys Ala Ser Pro Ala Phe Val Met Xaa Phe Ser Phe Phe
50 55 60

Thr His Cys Gln Ile Cys Phe Leu Pro
65 70

<400> 928
Glu Ala Pro Trp Gln Phe Ser
1 5

```
<210> 929
<211> 23.
<212> PRT
<213> Homo sapiens
```

<400> 929
Met Phe Leu Lys Ala Gln Trp Leu Tyr Ser Leu Leu Leu Asn Cys Leu
1 5 10 15

Leu Pro Glu Gly Thr Ser Ser
20

```
<210> 930
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 930

Met Phe Leu Lys Ala Gln Trp Leu Tyr Ser Leu Leu Leu Asn Cys Leu
 1 5 10 15

Leu Pro Glu Gly Thr Ser Ser
 20

<210> 931

<211> 64

<212> PRT

<213> Homo sapiens

<400> 931

Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu
 1 5 10 15

Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala
 20 25 30

Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser
 35 40 45

Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu
 50 55 60

<210> 932

<211> 822

<212> PRT

<213> Homo sapiens

<400> 932

Met Ala Ala Val Val Val Ala Glu Gly Asp Ser Asp Ser Arg Pro
 1 5 10 15

Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val
 20 25 30

Pro Pro Ala Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val
 35 40 45

Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly
 50 55 60

His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln
 65 70 75 80

Asn Asp Leu Gln Ala Asn Ile Ser Pro Glu Phe Trp Asn Ala Ile Ser
 85 90 95

Gln Cys Glu Asn Ser Ala Asp Glu Pro Gln Cys Leu Leu Leu Leu
 100 105 110

Asp Ala Phe Gly Leu Leu Glu Ser Arg Leu Asp Pro Tyr Leu Arg Ser
 115 120 125

Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly
770 775 780

Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln
785 790 795 800

Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg
805 810 815

Leu Pro Lys Asn Cys Ser
820

<210> 933

<211> 157

<212> PRT

<213> Homo sapiens

<400> 933

Met Ser Pro Trp Leu Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu
1 5 10 15

Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg
20 25 30

Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His
35 40 45

Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln
50 55 60

Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile
65 70 75 80

Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr
85 90 95

Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe
100 105 110

Leu Lys Pro Trp Leu Gly Glu Tyr Leu Gln Val Lys Gly Val Gly Asp
115 120 125

Asn Leu Ala Gly Arg Val Gly Glu Val Leu Leu Leu Pro Ile Val Leu
130 135 140

Gly Cys Pro Thr Arg Arg Arg Asp Thr Ala Glu Trp Arg
145 150 155

<210> 934

<211> 13

<212> PRT

<213> Homo sapiens

<400> 934

Leu Val Ile Gly Gly Trp Gly Gln Arg Arg Leu Tyr Arg


```
<210> 935
<211> 126
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 935
Met Ser Pro Trp Leu Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu
1 5 10 15

Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg
20 25 30

Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His
35 40 45

Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln
50 55 60

Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile
65 70 75 80

Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr
85 90 95

Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe
100 105 110

Leu Lys Pro Trp Leu Gly Xaa Arg Asp Thr Ala Glu Trp Arg
115 120 125

```
<210> 936
<211> 90
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<220>
<221> SITE
<222> (25).
<223> Xaa equals any of the naturally occurring L-amino acids

```

```
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Figure 1: Schematic representation of the experimental design. The figure is divided into two main sections: 'Pretest' and 'Main Experiment'. The 'Pretest' section includes a 'Pretest' box with a 'Pretest' label and a 'Pretest' box with a 'Pretest' label. The 'Main Experiment' section includes a 'Main Experiment' box with a 'Main Experiment' label and a 'Main Experiment' box with a 'Main Experiment' label.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<211> 6
 <212> PRT
 <213> Homo sapiens

<400> 939
 Thr Leu Thr Ala Lys Thr
 1 5

<210> 940
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 940
 Met Lys Leu Thr Phe Ser Phe Pro Trp Phe Thr Leu Thr Ala Leu Gln
 1 5 10 15

Leu Trp Ser Ala Thr Glu Cys Gln Ala Val Val Asp Thr Met Ile Ala
 20 25 30

Val Trp Ser Glu Gly Lys Gly Thr Gly Val Ser Trp Glu Pro Trp Leu
 35 40 45

Leu Gly Lys Leu Gln Ser Ser Ser Phe Leu
 50 55

<210> 941
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 941
 Leu Lys Xaa Ile Thr Ile Cys Cys Leu Gln Lys Thr His Leu His Ser
 1 5 10 15

Lys Gly Thr Glu Arg Met Lys Val Lys Gly Trp Glu Arg Val Tyr Trp
 20 25 30

Gly Asn Ile Thr Glu Gly Asn Met Met Asn Leu Tyr
 35 40

<210> 942
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 942
 Leu Gly Ala Phe Ser Trp Ser Pro Lys
 1 5

<210> 943
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 943
 Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro
 1 5 10 15
 Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg
 20 25 30
 Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe
 35 40 45
 Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser
 50 55 60
 His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val
 65 70 75 80
 Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg
 85 90 95

<210> 944
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 944
 Met Ala Arg Ser Leu Leu Ile Ile Leu Gly Ala Asp Phe Thr Phe Pro
 1 5 10 15
 Thr Ser Phe Asn Cys Phe Gln Lys Met Asn Leu Ala Lys Lys Ser Arg
 20 25 30
 Gly Ser Phe Thr His Leu Leu Thr His Ser Trp Cys Leu Ser Leu Phe
 35 40 45
 Leu Lys Glu Ala Asp Gln Gly Leu Arg Glu Asn Asn Phe Asp Phe Ser
 50 55 60
 His Val Cys Pro Ser Lys Pro Pro Leu Trp Thr Asp Ser Pro Ser Val
 65 70 75 80
 Pro Gly Arg Asn Trp Asp Asn Pro Arg Thr Phe Leu Val Pro Ser Arg
 85 90 95

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a monitor. On the table is a 3D model of a hand. The monitor displays a 2D image of the hand and a target. The participant's hand is positioned over the target. The diagram includes labels for the participant, the screen, the 3D model, and the 2D image.

```

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

```

Cys Cys Leu Ala Phe Phe Ser Phe Pro Phe
20 25

<400> 946
Met Leu Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Phe Trp
1 5 10 15

Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe
20 25 30

Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys
35 40 45

Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro
50 55 60

Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr
65 70 75

```
<210> 947
<211> 77
<212> PRT
<213> Homo sapiens
```

<400> 947
Met Leu Leu Phe Phe Phe Phe Leu Leu Phe Phe Phe Phe Phe Phe Trp
1 5 10 15

Leu Val Leu Phe Gly Ile Phe Phe Phe Ser Phe Leu Lys Lys Met Phe
20 25 30

Ser Gly Asn Met Asn Lys His Thr Ala Asn Tyr Ser Gly Ala Gly Lys
 35 40 45
 Ala Gln Glu Leu Ala Thr Ser Gln Leu His Ser Trp Asp Gly Lys Pro
 50 55 60
 Cys Cys Glu Leu Leu Arg Leu Phe Thr Tyr Phe Thr Tyr
 65 70 75

<210> 948
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 948
 Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu
 1 5 10

<210> 949
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 949
 Met Trp Arg Trp Leu Ser Ser Phe Trp Leu Leu
 1 5 10

<210> 950
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 950
 Ala Arg Glu Lys Pro Tyr Leu Val Glu Glu Ala Val Ser Tyr Asn Glu
 1 5 10 15

Leu Asp Tyr Val Ser Val Gly Leu Asp Gln Gln Thr Val Lys Leu Val
 20 25 30

Cys Thr Asn Arg Arg Lys Gln Phe Leu Leu Asp Thr Ala Asp Val Ala
 35 40 45

Leu Ala Glu Phe Phe Leu Ala Ser Leu Lys Ser Ala Met Ile Lys Gly
 50 55 60

Cys Arg Glu Pro Pro Tyr Pro Ser Ile Leu Thr Asp Ala Thr Met Glu
 65 70 75 80

Lys Leu Ala Leu Ala Lys Phe Val Ala Gln Glu Ser Lys Cys Glu Ala
 85 90 95

Ser Ala Val Thr Val Arg Phe Tyr Gly Leu Val His Trp Glu Asp Pro
 100 105 110

Thr	Asp	Glu	Ser	Leu	Gly	Pro	Thr	Pro	Cys	His	Cys	Ser	Pro	Pro	Glu	
		115					120					125				
Gly	Thr	Ile	Thr	Lys	Glu	Gly	Met	Leu	His	Tyr	Lys	Ala	Gly	Thr	Ser	
	130					135					140					
Tyr	Leu	Gly	Lys	Glu	His	Trp	Lys	Thr	Cys	Phe	Val	Val	Leu	Ser	Asn	
145					150					155					160	
Gly	Ile	Leu	Tyr	Gln	Tyr	Pro	Asp	Arg	Thr	Asp	Val	Ile	Pro	Leu	Leu	
			165						170					175		
Ser	Val	Asn	Met	Gly	Gly	Glu	Gln	Cys	Gly	Gly	Cys	Arg	Arg	Ala	Asn	
			180					185					190			
Thr	Thr	Asp	Arg	Pro	His	Ala	Phe	Gln	Val	Ile	Leu	Ser	Asp	Arg	Pro	
		195					200					205				
Cys	Leu	Glu	Leu	Ser	Ala	Glu	Ser	Glu	Ala	Glu	Met	Ala	Glu	Trp	Met	
	210					215					220					
Gln	His	Leu	Cys	Gln	Ala	Val	Ser	Lys	Gly	Val	Ile	Pro	Gln	Gly	Val	
225					230					235					240	
Ala	Pro	Ser	Pro	Cys	Ile	Pro	Cys	Cys	Leu	Val	Leu	Thr	Asp	Asp	Arg	
				245					250					255		
Leu	Phe	Thr	Cys	His	Glu	Asp	Cys	Gln	Thr	Ser	Phe	Phe	Arg	Ser	Leu	
			260					265					270			
Gly	Thr	Ala	Lys	Leu	Gly	Asp	Ile	Ser	Ala	Val	Ser	Thr	Glu	Pro	Gly	
	275						280					285				
Lys	Glu	Tyr	Cys	Val	Leu	Glu	Phe	Ser	Gln	Asp	Ser	Gln	Gln	Leu	Leu	
	290					295					300					
Pro	Pro	Trp	Val	Ile	Tyr	Leu	Ser	Cys	Thr	Ser	Glu	Leu	Asp	Arg	Leu	
305					310					315					320	
Leu	Ser	Ala	Leu	Asn	Ser	Gly	Trp	Lys	Thr	Ile	Tyr	Gln	Val	Asp	Leu	
			325						330					335		
Pro	His	Thr	Ala	Ile	Gln	Glu	Ala	Ser	Asn	Lys	Lys	Lys	Phe	Glu	Asp	
			340					345					350			
Ala	Leu	Ser	Leu	Ile	His	Ser	Ala	Trp	Gln	Arg	Ser	Asp	Ser	Leu	Cys	
		355					360					365				
Arg	Gly	Arg	Ala	Ser	Arg	Asp	Pro	Trp	Cys							
	370					375										

<210> 951

<211> 134

<212> PRT

<213> Homo sapiens

<400> 951

Ser Pro Ala Arg His Pro Thr Thr Ser Ser Arg His Thr Trp Trp Glu

1	5	10	15
Ser Gly Asn Ala Val Pro Pro Gly Ser Pro Phe His Gly Arg Pro Leu	20	25	30
Leu Leu Leu Gln Pro Ala Gly Pro Val Pro Phe Gln Asp Gln Pro Phe	35	40	45
Asp Pro Ser Gln Gly Pro Trp Pro Gly Leu His Cys Arg Pro Gln Gly	50	55	60
Leu Met His Ser Met Cys Leu Pro Asp Leu Thr Pro Glu Asp Gly Gly	65	70	75
Lys Ala Gln Asp His Thr Ala Leu Gly His Ser Arg Glu Gln Asp Thr	85	90	95
Pro Gly Val Gln Glu Asn Phe Gln Gly Ala Ala Pro Leu Asp Arg Tyr	100	105	110
Thr Arg Arg Phe Asn Thr Leu Tyr Tyr Leu Gly Asn Gln Arg Arg Gly	115	120	125
Ile Ile Lys Thr Arg Lys	130		

<210> 952
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 952
Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu Leu His
1 5 10 15
Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu
20 25 30
His Lys Thr Ala Cys Gly Cys Tyr Ala Asn Ser Thr Cys Leu Leu Pro
35 40 45
Asn Gly Leu Ser Asn His Lys Gly Lys Ser
50 55

<210> 953
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 953
Met Ala Thr Ala Ser Ile Asn Asn Leu Ile Ser Ser Leu Leu Leu His
1 5 10 15
Leu Ser Leu Leu Ser Ser Lys Ala Gly Lys Phe Leu Ile Trp Lys Glu
20 25 30

Gly His Trp Thr Gly Ile Ala Asp Ser Leu Val Ala Thr Leu Gly Cys
 20 25 30
 Arg Leu Ser Gly Ser Val Pro Pro Pro Leu Leu Pro Ala Pro Ser Gly
 35 40 45
 His Ser Arg Ala Leu His Gln Thr Leu Thr Trp Cys Leu His Leu Leu
 50 55 60
 Ser Leu Ser Pro Ser Ser Asn Pro Trp Lys Ser Leu Val
 65 70 75

<210> 957
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 957
 Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu
 1 5 10 15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly
 20 25

<210> 958
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 958
 Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Trp Xaa Glu Glu
 1 5 10 15

Gly Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala
 20 25

<210> 959
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 959
 Met Arg Ala Arg Thr Leu Pro Pro Ser Leu Leu Cys Leu Trp Cys Leu
 1 5 10 15

Ala Pro Tyr Leu Asn Ile Cys Trp Met Asn Gly
 20 25

30

Pro Gly Ala Gln Gly
'50

<213> Homo sapiens

Ser Ile Leu Leu Val Ser Leu Asp Leu Leu Pro Thr Ser Ile Leu Leu
1 5 10 15

Val Ser Leu Trp Ile Cys Ser Pro Pro Pro Ser Ser Trp Val Asn Pro
20 25 30

Gly Ser Phe Val Gly Tyr Leu Glu Arg Lys Arg Gln Lys Leu Ile Cys
35 40 45

Gln Met Thr Arg Thr Asn Arg Leu Phe Gly Met Lys Arg Lys Thr Ser
50 55 60

Gly
65

<213> Homo sapiens

Asp Leu Lys
1

<213> Homo sapiens

Met Asn Glu Lys Phe Leu Pro Pro Leu
1 5

<213> Homo sapiens

<400> 966

Met Leu Arg Pro Pro Arg Trp Ala Leu Met Ala Ala Ser Ser His Pro
 1 5 10 15
 Pro Pro Leu Trp Ser Trp Val Leu Gly Leu Ala Ala His Pro Thr Gly
 20 25 30
 Met Ser Pro Gly Thr Gly Pro His His Gly Trp Val Ser Ala Ser Ser
 35 40 45
 Ser Ser Ser
 50

<210> 967

<211> 244

<212> PRT

<213> Homo sapiens

<220>

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<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 967

Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1 5 10 15
 Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His
 20 25 30
 His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro
 35 40 45

Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
 50 55 60
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
 65 70 75 80
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser
 85 90 95
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val
 100 105 110
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu
 115 120 125
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu
 130 135 140
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu
 145 150 155 160
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
 165 170 175
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu
 180 185 190
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala
 195 200 205
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val
 210 215 220
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr
 225 230 235 240
 Pro Pro Pro Phe

<210> 968

<211> 244

<212> PRT

<213> Homo sapiens

<220>

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<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 968

Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1 5 10 15

Tyr Leu Phe Leu Ser Gly Ser Gly Ala Arg Cys Ser Tyr Phe Ser His
50 55 60

Leu Arg Trp Asp Ile Leu Gly Gln Thr Arg Glu Ile Leu Glu Ala Ile
65 70 75 80

Ser Val Val Asn Pro
85

<210> 970

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 970

Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
1 5 10 15

Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
20 25 30

Ile Xaa Xaa Ser Val Ser Ser Ile Thr Thr Val His Pro Xaa Leu Gly
35 40 45

Leu Leu Phe Cys Ile Leu
50

<210> 971

<211> 37

<212> PRT

<213> Homo sapiens

<400> 971

Ile Leu Leu Gly Leu Trp Gln Ser Val Leu Gly Ser Ser Ile Trp Gly
1 5 10 15

Gln Pro Leu Ser Tyr Asn Cys Gln Glu Pro His Asn Cys Leu Phe Asn
20 25 30


```

<400> 972
Met Lys Thr Val Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
  1                      5                      10                      15

Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
      20                      25                      30

Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val
      35                      40                      45

Phe Phe Phe Ala Phe Phe Arg Thr
      50                      55

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<400> 973
Lys Leu Thr Gln Ala Gly Ser Gly Tyr Val His Arg Glu Ile Phe Pro
  1                      5                      10                      15
Arg Val Cys Phe Phe Asp Ile Leu Ser Pro Ser Phe Tyr Leu Leu Ala
          20                      25                      30
Gly Ile Ser Cys Pro Thr Thr Pro Val Ile Ile Cys Lys Pro Leu Tyr
          35                      40                      45
Ser Phe Gln Cys Leu Lys Val Ile His Lys Glu Gly Arg Asn Lys Arg
  50                      55                      60
Val
  65

```

<400> 974
Met Thr Leu Ser Asn Trp Glu Tyr Gly Phe His
1 5 10

531

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' is a 2x2 grid of images. The 'Response' is a 2x2 grid of images. The 'Reaction time' is a 2x2 grid of images. The 'Stimulus' and 'Response' are labeled 'Stimulus' and 'Response' respectively. The 'Reaction time' is labeled 'Reaction time'.

<400> 977																	
Pro	Glu	Thr	Phe	Leu	Leu	Val	Thr	Gly	Ser	Gln	Trp	Gly	Ile	Leu	Gly		
1				5					10						15		
Cys	Gln	Gly	Pro	Arg	Val	Thr	Cys	Val	Gln	Leu	Phe	Tyr	Gly	Ser	Arg		
			20					25					30				
Gly	Leu	Ser	Leu	Arg	Gln	Ala	Thr	Lys	Cys	Pro	Gly	Cys	His	Pro	Pro		
		35					40					45					
Trp	Ser	Pro	Ser	Val	Pro	His	Ala	Trp	Ser	Pro	Ala	Ser	Pro	Arg	Ile		
	50					55					60						
Pro	Val	Ala	Phe	Ile	Ser	Gly	Gln	Leu	Pro	Ala	Arg	Pro	Gly	Leu	Gly		
	65				70					75					80		
His	Gly	Leu	Arg	His	Glu	Ala	Arg	Pro	Pro	Pro	Ala	Pro	Leu	Pro	Arg		
				85					90					95			
Gly	Ser	Ser	Ile	Pro	Leu	His	Phe	Trp	Asn	Val	Cys	Ala	Ser	Met	Met		
			100					105					110				

20 25 30

Phe Trp Pro Leu Gly Ile Ala Ala Phe Tyr Phe Ser Gln Gly Thr Ser
35 40 45

Lys Ala Ile Ser Lys Gly Asp Phe Arg Leu Ala Ser Thr Thr Ser Arg
50 55 60

Arg Ala Leu Phe Leu Ala Thr Xaa Ala Ile Ala Val Gly Ala Gly Leu
65 70 75 80

Tyr Val Ala Val Val Val Ala Leu Ala Ala Tyr Met Ser Gln Asn Gly
85 90 95

His Gly

<210> 981
<211> 68
<212> PRT
<213> Homo sapiens

<400> 981
Met Pro Leu Gln Arg Arg Val Lys Val Lys Thr Thr Ser Ser Arg Cys
1 5 10 15

Leu Pro Gly Thr Thr Trp Asp Leu Leu Ser Ser Pro Cys Ser Ala Ala
20 25 30

Ser Gly His Trp Ala Leu Leu Pro Ser Thr Ser Pro Arg Gly Pro Ala
35 40 45

Arg Pro Ser Pro Lys Gly Thr Ser Ala Trp Pro Ala Pro Pro Pro Ala
50 55 60

Gly Pro Ser Ser
65

<210> 982
<211> 68
<212> PRT
<213> Homo sapiens

<220>
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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 982

Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe
1 5 10 15

Pro Lys Glu Ile Ile Gln Asn Arg Xaa Lys Leu Lys Ala Glu Lys Cys
20 25 30

Trp Asn Met Thr Leu Phe Ile Ala Val Gly Lys Met Gly Gly Trp Gly
35 40 45

Thr Trp Xaa Met Leu Glu Ile Xaa Ala Leu Cys Glu Gly Pro Val Gly
50 55 60

Glu Asp Ala Leu
65

<210> 983

<211> 8

<212> PRT

<213> Homo sapiens

<400> 983

Arg Val Phe Pro Val Thr Thr Leu
1 5

<210> 984

<211> 32

<212> PRT

<213> Homo sapiens

<400> 984

Met Leu Leu Pro Leu Phe Thr Leu Leu Ile Leu Leu Leu Arg Val Phe
1 5 10 15

Pro Lys Glu Ile Ile Gln Asn Arg Lys Lys Leu Lys Ala Glu Lys Cys
20 25 30

<210> 985

<211> 10

<212> PRT

<213> Homo sapiens

<400> 985

Met Gly Leu Phe Leu Phe Leu Val Ser Ser
1 5 10

<210> 986

<211> 10
 <212> PRT
 <213> Homo sapiens

<400> 986
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
 1 5 10

<210> 987
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 987
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
 1 5 10 15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
 20 25 30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
 35 40 45

Ile Ser Phe Leu Phe Ser Ala Trp
 50 55

<210> 988
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 988
 Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
 1 5 10 15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
 20 25 30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
 35 40 45

Ile Ser Phe Leu Phe Ser Ala Trp
 50 55

<210> 989
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 992
 Val Phe Lys Thr Ile Arg Xaa Arg Glu Ile Ile Leu Tyr His Glu Asn
 1 5 10 15

 Ser Thr Gly Lys Thr His Pro His Asp Ser Leu Ile Ser His Trp Val
 20 25 30

 Pro Xaa Thr Thr Gln Gly Asn Tyr Gly Ser Tyr Lys Met Arg Phe Gly
 35 40 45

 Trp Gly His Arg Ala Arg Pro Tyr Gln Pro Pro Lys
 50 55 60

<210> 993
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 993
 Met Asp Ile Gln Gly Lys Ala Leu Tyr Ile Arg Phe Leu Leu Thr Leu
 1 5 10 15

 Cys Gln Met Val Val Ser Val Met Gly Lys Arg Xaa Gln Gly Arg Arg
 20 25 30

 Gly Leu Gly Gly Ala Ala Ala Val Gly Arg Glu Ile Cys Arg Arg Trp
 35 40 45

 Gly Cys Cys Val Thr
 50

<210> 994
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 994
 Leu Cys Trp Thr Arg Ser Ser Val Ile Gly Ala His
 1 5 10

<210> 995
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 995

<211> 53
<212> PRT
<213> Homo sapiens

<400> 998
Met Arg Leu Ile Leu Phe Ala Met Ser Pro Lys Leu Leu Phe Leu Phe
1 5 10 15
Leu Phe Leu Tyr Ile Ser Val Lys Ser Phe Asp Leu Val Leu Ser Phe
20 25 30
Arg Ser Val Leu Phe Met Ser Asp Leu Ile His Cys Phe Tyr His Gln
35 40 45
Leu His Phe Lys Leu
50

<210> 999
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999
Leu Gly Ile Trp Leu Ile Pro Gly Leu Arg Arg Ala Asn Pro Lys Ile
1 5 10 15
Ser Leu Glu Tyr Leu Met Val Pro Glu Asn Lys Tyr Ser Lys Asn Cys
20 25 30
Glu Xaa Met Leu Lys Gly Leu Arg Ser Gln Pro Glu Gly Ala Ala Asn
35 40 45
Gly Gln Ser Trp Asn Asn Ser Asn Lys Val Asn Lys Tyr Ser Ile Gly
50 55 60
Leu Leu Leu Asn Lys Cys Met Ile His Glu Ser Thr Leu Lys Asp
65 70 75

<210> 1000
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1000
Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala
1 5 10 15
Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu
20 25 30
Leu Leu Leu Gly Pro Ser Ile Tyr Ser Phe Cys
540

0903245 041201


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<400> 1001
Met Phe His Arg Phe Phe Ile Leu Ser Ala Leu Ser Arg Ile Arg Ala
  1             5             10             15
Leu Thr Thr Phe Leu Asp Asp Leu Gly Met Thr His Gln Thr Leu Leu
      20             25             30
Leu Leu Leu Gly Pro Ser Ile Tyr Ser Phe Cys
  35             40

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<220>
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<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
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<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1002
Val Gln Val Leu Thr Gln Tyr Tyr Gln Ser Asn Ile Leu Asn Ile Leu
1 5 10 15 .

[illegible]

Ser Gln Val Ile Cys Leu Ser Ile Val Tyr Phe Glu Gly Phe Leu Ser
20 25 30

Phe Thr Phe Asn Leu Phe Phe Ile Ser Ile Ser Ser Xaa Val Ala Leu
35 40 45

Ser Tyr Ser Tyr Pro Asp Ile His Leu Ile Ser Glu Gly Leu Asp Ile
50 55 60

Thr Leu Val Lys Met Gln Ser Asp Leu Ile Leu Phe Leu Lys Gln Thr
65 70 75 80

Ala Val Leu Leu Glu Arg Pro Arg Ala His Arg Phe Ser Thr Arg Val
85 90 95

Gly Tyr Xaa Val Ser Val His Xaa Ser Gly Ser Xaa Xaa Val Xaa
100 105 110

<210> 1003
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003
Met Leu Tyr Val Arg Leu Leu Lys Asn Thr Lys Ile Xaa Val Leu Ile
1 5 10 15

Leu Pro Leu Phe Ile Leu Phe Leu Thr Leu Phe Leu Phe Ile Pro Asn
20 25 30

Gly Phe Leu Phe Val Phe Val Ser Leu Tyr Phe
35 40

<210> 1004
<211> 118
<212> PRT
<213> Homo sapiens

<400> 1004
Met Phe Ile Val Phe Ser Val Leu Leu Leu Phe Phe Gln Phe Ala Ile
1 5 10 15

Cys Gln Phe Ala Asp Leu Ala Ile Phe Pro Leu Ser Met Cys Gln Leu
20 25 30

Cys Asn Leu Ser Ala Arg Leu Ala Ala Pro Ser Ala Arg Phe Glu Gly
35 40 45

Leu Gly Ile Asn Arg Thr Arg Lys Ala Glu Gly Ser Leu Pro Thr Thr
50 55 60

Ala Val Gln Leu Leu Pro Tyr Lys Ser Gln Ala Val Gln Val Gln His
65 70 75 80
Pro Gln Ala Val Ile Val Asp Lys Leu Ser Val Ile Ser Leu Arg Ser
85 90 95
Ile Cys Ile Asp Gln Leu Lys Phe Met Glu Met Glu Asn Ile Ile Lys
100 105 110
Pro Gly Tyr Val Thr Ser
115

<210> 1005
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1005
Ser Ile Lys Ser Cys Ser Ser Phe Tyr Leu Gly Ser Arg Val Asn Arg
1 5 10 15

Ala Gln Leu Thr Asn Tyr Pro Pro Ala Met Arg Thr Tyr Val Tyr Glu
20 25 30

Cys His Cys Asp Lys Ser Thr Ser Arg Ala Thr Ala Gly Pro Ser Ile
35 40 45

Phe His Pro Gly Gly Val Xaa Gly Met Trp Xaa Ile Phe Ala Xaa Val
50 55 60

<210> 1006
<211> 42
<212> PRT
<213> Homo sapiens

<220>
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<222> (21)

[illegible]

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<222> (23)
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<222> (42)

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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1006

<400> 1006
His Ser Pro Glu Ser Cys Tyr Ser Phe Asn Leu Gly Ser Arg Met Arg
1 5 10 15

Ile Ser Val Glu Xaa Lys Xaa Ala Lys Ser Asn Ser Ala Ala Asp Asn
20 25 30

Pro Glu Thr Leu Arg Lys Gly Tyr Val Xaa
35 40

<210> 1007

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1007

<400> 1007
Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu
1 5 10 15

Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu
20 25 30

Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro
35 40 45

Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val
50 55 60

Pro Leu Ser Leu Leu Leu Arg Ser Lys Ser Ser Lys
65 70 75

<210> 1008

<211> 76

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (71)

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<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1008

<400> 1008
Met Leu Val Leu Leu Ser Leu Leu Ala Ser Gly Gly Leu Pro Leu Leu
1 5 10 15

Leu Val Gly Asp Val Leu Ala Ser Lys Ser Ser Thr Val Leu Phe Leu
 20 25 30
 Pro Gly Asp Ser Ser Pro Gly Cys Ser Met Ile Thr Pro Leu Pro Pro
 35 40 45
 Ser Arg Met Cys Leu Lys Ala Gly Ser Ser Gly Glu Gln Thr Val Val
 50 55 60
 Pro Leu Ser Leu Leu Leu Xaa Ser Lys Ser Ser Lys
 65 70 75

<210> 1009
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 1009
 Cys His Leu Gln His Ser Cys Arg Glu
 1 5

<210> 1010
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 1010
 Met Thr Ala Leu Phe Cys Ser Leu Leu His Ser Leu Val Ser Leu Leu
 1 5 10 15

Leu Pro Thr Lys Trp Gly Gln Gly Lys Ala Phe Leu Thr Gly Pro Leu
 20 25 30

Phe Ser

<210> 1011
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 1011
 Phe Ser Cys Cys Leu Ser Leu Pro Ile Ser
 1 5 10

<210> 1012
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1012

Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
100 105 110

Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
115 120 125

Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
130 135 140

Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
145 150 155 160

Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
165 170 175

Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
180 185 190

Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
195 200 205

Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
210 215 220

Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
225 230 235 240

Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
245 250 255

Gly Lys Thr Lys Asn
260

<210> 1021
<211> 260
<212> PRT
<213> Homo sapiens

<400> 1021
Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
1 5 10 15

Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
20 25 30

Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu Gln
35 40 45

Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr Ile
50 55 60

Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe Leu
65 70 75 80

Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg Lys
85 90 95

Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu Pro

100	105	110
Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr Gln		
115	120	125
Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro Asp		
130	135	140
Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr Ile		
145	150	155
Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly Lys		
165	170	175
Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile Leu		
180	185	190
Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val Leu		
195	200	205
Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro Glu		
210	215	220
Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu Leu		
225	230	235
Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln Gly		
245	250	255
Lys Thr Lys Asn		
260		

<210> 1022
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1022
 Cys Val Leu Glu Pro Thr Ser Ser Gln Ser Ile Ala Pro Asp Leu Gly
 1 5 10 15
 Arg Glu Ser Thr Phe Ser Ile Gln Arg Asn Lys Asn Met Gln Phe Met
 20 25 30
 Val Val Leu Trp Thr Leu Thr Asp Cys Glu Gly Lys Val Tyr Pro Lys
 35 40 45
 Ala Val Ile Cys Arg
 50

<210> 1023
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1023

Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro
 1 5 10 15
 Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile
 20 25 30
 Ala Asn Ser Ser Asn Leu His Ile Lys
 35 40

<210> 1024
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1024
 Met Met Leu Pro Val Ile Ser Leu Phe Leu Ile Ser Leu His Leu Pro
 1 5 10 15
 Ile Phe Cys Phe Gln Arg Leu Leu Leu Phe Lys Gly Phe Leu Phe Ile
 20 25 30
 Ala Asn Ser Ser Asn Leu His Ile Lys
 35 40

<210> 1025
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025
 Lys Thr Val Met Leu Pro Ile Ala Gln Glu Val Gln Ser Pro Val Xaa
 1 5 10 15
 Xaa Xaa Cys Asp Lys Leu Ala Ala Asp Cys Ala His Glu Leu Arg Arg
 20 25 30
 His Gly Val Ser Cys Val Ser Leu Trp Pro Gly Ile Val Gln Thr Glu
 35 40 45
 Leu Leu Lys Glu His Met Ala Lys Glu Glu Val Leu Gln Asp Pro Val
 50 55 60

Leu Lys Gln Phe Lys Ser Ala Phe Ser Ser Ala Glu Thr Thr Glu Leu
 65 70 75 80
 Ser Gly Lys Cys Val Val Ala Leu Ala Thr Asp Pro Asn Ile Leu Ser
 85 90 95
 Leu Ser Gly Lys Val Leu Pro Ser Cys Asp Leu Ala Arg Arg Tyr Gly
 100 105 110
 Leu Arg Asp Val Asp Gly Arg Pro Val Gln Asp Tyr Leu Ser Leu Ser
 115 120 125
 Ser Val Leu Ser His Val Ser Gly Leu Gly Trp Leu Ala Ser Tyr Leu
 130 135 140
 Pro Ser Phe Leu Arg Val Pro Lys Trp Ile Ile Ala Leu Tyr Thr Ser
 145 150 155 160
 Lys Phe

<210> 1026
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1026
 Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr
 1 5 10 15
 Ser Trp Leu Leu Thr Val Pro Thr Ser Cys Gly Ala Met Gly Ser Ala
 20 25 30
 Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys
 35 40 45

<210> 1027
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1027
 Leu Pro Pro Phe Pro Gln Cys Asp Lys Leu Ala Ala Asp Cys Pro Thr
 1 5 10 15
 Ser Cys Gly Ala Met Gly Ser Ala Val Cys Leu Cys Xaa Arg Gly Leu
 20 25 30
 Cys Arg Gln Asn Cys
 35

<210> 1028
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1028
 Met Ala Arg Trp Leu Leu Pro Cys Leu Pro Pro Leu His Ser Val Thr
 1 5 10 15
 Ser Trp Leu Leu Thr Val Pro-Thr Ser Cys Gly Ala Met Gly Ser Ala
 20 25 30
 Val Cys Leu Cys Gly Arg Gly Leu Cys Arg Gln Asn Cys
 35 40 45

<210> 1029
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 1029
 Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr
 1 5 10 15
 Thr Ala Gly Ala Ser Gly Ala Thr Tyr Val Pro Thr Arg
 20 25

<210> 1030
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1030
 Met Asp Gln Phe Leu Gln Tyr Leu Leu Glu Cys Met Leu Leu Cys Thr
 1 5 10 15
 Thr Ala Gly Ala Ser Gly Ala His Leu Cys Thr Asn Glu Met Thr Leu
 20 25 30
 Leu Glu Ala Ile Leu Tyr Leu Gln Trp Met
 35 40

<210> 1031
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1031
 Cys Leu Ile Leu Gln Glu Glu Asn Arg Lys Glu Leu Ser Asn Leu Ala
 1 5 10 15

Asn Arg Tyr Lys Ile Asp Ser Arg Val Leu Ser Pro Thr Leu Gly Trp
20 25 30

Gln Pro Val Gly Gln Thr Pro Lys Thr Val Ala Asp Val Phe Phe Cys
35 40 45

Leu Pro Ser Leu Gly
50

<210> 1032

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1032

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu
1 5 10 15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr
20 25 30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr
35 40 45

Val Asn Ile Val Ser Thr Leu Leu
50 55

<210> 1033

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1033

Val Trp Met Pro
1

<210> 1034

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1034

Met Leu Leu Phe His Val Trp Val Asp Leu Ala Cys Trp Gly Val Leu
1 5 10 15

Val His Ser Leu Lys Leu Ala Ser Phe His Trp Gly Leu Lys Ser Thr
20 25 30

Ser Thr Pro Thr Leu Val Met Ser Pro Glu Asp Pro Gly Asp Ser Thr
35 40 45

Val Asn Ile Val Ser Thr Leu Leu
50 55

<210> 1035
 <211> 491
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035
 Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Arg Ser Ala Ala Met
 1 5 10 15
 Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala
 20 25 30
 Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Xaa Pro Gly Ala Pro
 35 40 45
 Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly Ile
 50 55 60
 Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser
 65 70 75 80
 Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg
 85 90 95
 Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro
 100 105 110
 Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met
 115 120 125
 His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln
 130 135 140
 Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu
 145 150 155 160
 Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp Gly
 165 170 175
 Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe Val
 180 185 190
 Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro Asp

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195					200					205					
Leu	Asp	Arg	Ile	Val	Tyr	Val	Asn	Glu	Lys	Glu	Gly	Gly	Pro	Asn	Asn
210					215					220					
His	Leu	Leu	Lys	Asn	Met	Lys	Lys	Ile	Val	Asp	Gln	Asn	Thr	Lys	Leu
225				230						235					240
Ala	Pro	Glu	Thr	Lys	Ala	Val	Ile	His	Trp	Ile	Met	Asp	Ile	Pro	Phe
				245					250					255	
Val	Leu	Ser	Ala	Asn	Leu	His	Gly	Gly	Asp	Leu	Val	Ala	Asn	Tyr	Pro
			260				265						270		
Tyr	Asp	Glu	Thr	Arg	Ser	Gly	Ser	Ala	His	Glu	Tyr	Ser	Ser	Ser	Pro
		275					280					285			
Asp	Asp	Ala	Ile	Phe	Gln	Ser	Leu	Ala	Arg	Ala	Tyr	Ser	Ser	Phe	Asn
		290				295					300				
Pro	Ala	Met	Ser	Asp	Pro	Asn	Arg	Pro	Pro	Cys	Arg	Lys	Asn	Asp	Asp
305					310					315					320
Asp	Ser	Ser	Phe	Val	Asp	Gly	Thr	Thr	Asn	Gly	Gly	Ala	Trp	Tyr	Ser
				325					330					335	
Val	Pro	Gly	Gly	Met	Gln	Asp	Phe	Asn	Tyr	Leu	Ser	Ser	Asn	Cys	Phe
			340					345					350		
Glu	Ile	Thr	Val	Glu	Leu	Ser	Cys	Glu	Lys	Phe	Pro	Pro	Glu	Glu	Thr
			355				360					365			
Leu	Lys	Thr	Tyr	Trp	Glu	Asp	Asn	Lys	Asn	Ser	Leu	Ile	Ser	Tyr	Leu
					370		375				380				
Glu	Gln	Ile	His	Arg	Gly	Val	Lys	Gly	Phe	Val	Arg	Asp	Leu	Gln	Gly
385					390					395					400
Asn	Pro	Ile	Ala	Asn	Ala	Thr	Ile	Ser	Val	Glu	Gly	Ile	Asp	His	Asp
				405					410					415	
Val	Thr	Ser	Ala	Lys	Asp	Gly	Asp	Tyr	Trp	Arg	Leu	Leu	Ile	Pro	Gly
			420					425					430		
Asn	Tyr	Lys	Leu	Thr	Ala	Ser	Ala	Pro	Gly	Tyr	Leu	Ala	Ile	Thr	Lys
			435				440					445			
Lys	Val	Ala	Val	Pro	Tyr	Ser	Pro	Ala	Ala	Gly	Val	Asp	Phe	Glu	Leu
			450			455					460				
Glu	Ser	Phe	Ser	Glu	Arg	Lys	Glu	Glu	Glu	Lys	Glu	Glu	Leu	Met	Glu
465					470					475					480
Trp	Trp	Lys	Met	Met	Ser	Glu	Thr	Leu	Asn	Phe					
				485					490						

<210> 1036
<211> 255

<212> PRT
<213> Homo sapiens

<400> 1036

Leu	Leu	Leu	Trp	Thr	Met	Ser	Val	Ile	Phe	Phe	Ala	Cys	Val	Val	Arg
1				5					10					15	
Val	Arg	Asp	Gly	Leu	Pro	Leu	Ser	Ala	Ser	Thr	Asp	Phe	Tyr	His	Thr
		20						25					30		
Gln	Asp	Phe	Leu	Glu	Trp	Arg	Arg	Arg	Leu	Lys	Ser	Leu	Ala	Leu	Arg
		35					40					45			
Leu	Ala	Gln	Tyr	Pro	Gly	Arg	Gly	Ser	Ala	Glu	Gly	Cys	Asp	Phe	Ser
	50					55					60				
Ile	His	Phe	Ser	Ser	Phe	Gly	Asp	Val	Ala	Cys	Met	Ala	Ile	Cys	Ser
65					70					75				80	
Cys	Gln	Cys	Pro	Ala	Ala	Met	Ala	Phe	Cys	Phe	Leu	Glu	Thr	Leu	Trp
				85					90					95	
Trp	Glu	Phe	Thr	Ala	Ser	Tyr	Asp	Thr	Thr	Cys	Ile	Gly	Leu	Ala	Ser
			100					105					110		
Arg	Pro	Tyr	Ala	Phe	Leu	Glu	Phe	Asp	Ser	Ile	Ile	Gln	Lys	Val	Lys
		115					120					125			
Trp	His	Phe	Asn	Tyr	Val	Ser	Ser	Ser	Gln	Met	Glu	Cys	Ser	Leu	Glu
						135					140				
Lys	Ile	Gln	Glu	Glu	Leu	Lys	Leu	Gln	Pro	Pro	Ala	Val	Leu	Thr	Leu
145					150					155					160
Glu	Asp	Thr	Asp	Val	Ala	Asn	Gly	Val	Met	Asn	Gly	His	Thr	Pro	Met
				165					170					175	
His	Leu	Glu	Pro	Ala	Pro	Asn	Phe	Arg	Met	Glu	Pro	Val	Thr	Ala	Leu
			180					185					190		
Gly	Ile	Leu	Ser	Leu	Ile	Leu	Asn	Ile	Met	Cys	Ala	Ala	Leu	Asn	Leu
		195					200					205			
Ile	Arg	Gly	Val	His	Leu	Ala	Glu	His	Ser	Leu	Gln	Val	Ala	His	Glu
	210					215					220				
Glu	Ile	Gly	Asn	Ile	Leu	Ala	Phe	Leu	Val	Pro	Phe	Val	Ala	Cys	Ile
225					230					235					240
Phe	Gln	Asp	Pro	Arg	Ser	Trp	Phe	Cys	Trp	Leu	Asp	Gln	Thr	Ser	
				245					250					255	

<210> 1037

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1037

Met Leu Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys
 1 5 10 15

Cys Gln Lys Gln Arg Lys Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu
 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Xaa His Pro Asp Arg
 35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn
 50 55 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val
 65 70 75 80

Lys Arg Leu Asn Leu Glu Val Arg Val His Asn Asn Leu Gln Asp Gly
 85 90 95

Thr Glu Val

<210> 1038

<211> 5

<212> PRT

<213> Homo sapiens

<400> 1038

Met Pro Val Leu Leu
 1 5

<210> 1039

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1039

Met Leu Leu Leu Leu Val Phe Leu Val Ala Cys Phe Ile Asn Arg Lys
 1 5 10 15

Cys Gln Lys Gln Arg Lys Lys Lys Pro Ala Glu Asp Ile Leu Glu Glu
 20 25 30

Tyr Pro Leu Asn Thr Lys Val Glu Val Pro Lys Arg His Pro Asp Arg
 35 40 45

Val Glu Lys Asn Val Asn Arg His Tyr Cys Thr Val Arg Asn Val Asn
 50 55 60

Ile Leu Ser Glu Pro Glu Ala Ala Tyr Thr Phe Lys Gly Ala Lys Val
 65 70 75 80

[illegible]

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<210> 1047
<211> 6
<212> PRT
<213> Homo sapiens
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<210> 1048
<211> 183
<212> PRT
<213> Homo sapiens
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561


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<400> 1049
Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr
  1                      5                      10                      15

Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu
                20                      25                      30

Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu
      35                      40                      45

Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val
  50                      55                      60

Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys
  65                      70                      75                      80

Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser
                85                      90                      95

Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg
                100                      105                      110

Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe
      115                      120                      125

Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met
  130                      135                      140

Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val
  145                      150                      155                      160

Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His
                165                      170                      175

Asn Ala Pro Gly Gly Gly His
                180

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 $\langle 220 \rangle$

<221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1050
 Pro Gly Pro Pro Leu Ser Phe Phe Xaa Phe Phe Phe Phe Phe Phe
 1 5 10 15

 Phe Phe Phe Phe Phe Phe Phe Lys His Cys Ile Gln Val Ser Leu
 20 25 30

<210> 1051
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1051
 Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe
 1 5 10 15

 Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr
 20 25 30

 Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys
 35 40 45

 Gln Ser Lys Lys Lys Xaa Tyr Ile Tyr Ile Ser Val Tyr Val Leu
 50 55 60

<210> 1052
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1052
 Met Asn His Cys Cys Ser Ser Gln Arg Phe Leu Asn Ile Leu Ser Phe
 1 5 10 15

 Cys Ile Ser Pro Pro Phe Pro Leu Thr Phe Ile Tyr Leu Ile Met Tyr
 20 25 30

 Leu Phe Ile Tyr Leu Tyr Thr Phe Ala Pro Phe Ser Thr Asn Thr Lys
 35 40 45

 Gln Ser Lys Lys Lys Lys Tyr Ile Tyr Ile Ser Val Tyr Val Leu
 50 55 60

<210> 1053
 <211> 75

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053
Ala Asp Asn Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
1 5 10 15
Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
20 25 30
Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
35 40 45
Ser Ala Arg Asp Asn Gln Phe Ile Leu Leu Asn Trp His Ile Leu Asn
50 55 60
His Asp Ser Gln Gln Leu Gly Asn Ile Phe Phe
65 70 75

<210> 1054
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1054
Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys Cys Ile Lys Glu Gln
1 5 10 15
Gln Phe Glu Gln Val Val Ala Leu Leu Gln Ser Ile Arg Xaa Cys
20 25 30
Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr Gln Gly Leu Ala Ser
35 40 45

Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys Val Val Val Gln Glu
 50 55 60
 Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu Thr Tyr Gln Xaa His
 65 70 75 80
 Arg Gly Arg Thr Arg Arg Trp Trp Glu Asn Val Gly Met Leu Leu Val
 85 90 95
 Pro Pro Gly Phe Leu Xaa Arg Arg Ser Cys Arg Ser Trp Cys Xaa Val
 100 105 110

Val

<210> 1055
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 1055
 Ile Leu
 1

<210> 1056
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1056
 Met Ala Glu Ala Ser Cys Gly Val Phe Trp Leu Leu Ser Leu Leu Cys
 1 5 10 15

Cys Ile Lys Glu Gln Gln Phe Glu Gln Val Val Ala Leu Leu Leu Gln
 20 25 30

Ser Ile Arg Leu Cys Gln Asp Arg Ala Leu Leu Val Asn Asn Ala Tyr
 35 40 45

Gln Gly Leu Ala Ser Leu Val Lys Val Ser Glu Leu Ala Ala Phe Lys
 50 55 60

Val Val Val Gln Glu Glu Gly Gly Ser Gly Leu Ser Leu Ile Lys Glu
 65 70 75 80

Thr Tyr Gln Leu His Arg Asp Asp Pro Glu Val Val Glu Asn Val Gly
 85 90 95

Met Leu Leu Val His Leu Ala Ser Tyr Glu Glu Ile Leu Pro Glu Leu
 100 105 110

Val Ser Ser Ser Met Lys Ala Leu Leu Gln Glu Ile Lys Glu Arg Phe
 115 120 125

Thr Ser Ser Leu Glu Leu Val Ser Cys Val Glu Lys Val Leu Leu Arg

130

135

140

Leu Glu Ala Ala Thr Ser Pro Ser Pro Leu Gly Gly Glu Ala Ala Gln
 145 150 155 160

Pro

<210> 1057

<211> 491

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1057

Ala Ala Arg Val Gly Arg His Gly Arg Arg Arg Arg Ser Ala Ala Met
 1 5 10 15

Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu Ala
 20 25 30

Ala Cys Gly Trp Leu Leu Gly Ala Glu Xaa Xaa Xaa Pro Gly Ala Pro
 35 40 45

Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly Ile
 50 55 60

Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val Ser
 65 70 75 80

Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly Arg
 85 90 95

Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn Pro
 100 105 110

Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn Met
 115 120 125

His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala Gln
 130 135 140

Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn Leu
 145 150 155 160

Arg Glu Lys Ser Ser Leu Ser Val Pro Val Leu Val Cys Leu Cys Cys
1 5 10 15

Tyr Asn Arg Ile
20

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<210> 1060
<211> 244
<212> PRT
<213> Homo sapiens
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<400> 1060
Leu Val Pro Leu Val Phe Ser Leu Leu Val Gln Ser Cys Lys Gln Val
1 5 10 15

Tyr Arg Ser Ile Ala Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr
20 25 30

Leu Ser Cys Leu Gly Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly
35 40 45

Ser Thr Gly Glu Glu Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys
50 55 60

Thr Met Arg Pro Ser Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu
65 70 75 80

Arg Val Asp Cys Arg Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg
85 90 95

Gly Gln Pro Ser Met Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr
100 105 110

Trp Asn Gln Ala Leu Gln Glu Leu Arg Arg Leu His His Ala Cys Gln
 . 115 120 125

Gly Ala Pro Val Leu Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln
130 135 140

Ala His Met Gln Gln Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro
145 150 155 160

Asn Gln Gln Pro Glu Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr
165 170 175

Val Lys Leu Thr Glu Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu
180 185 190

Leu Gly Lys Ala Lys Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln
195 200 205

Pro Gly Pro Arg Pro Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp
210 215 220

Glu His Cys Trp Lys Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser
225 230 235 240

Phe Phe Arg Gly

[illegible]

Met Arg Leu Ala Ser Ser Leu Ser Val Phe Pro Leu Leu Pro Leu Thr
1 5 10 15

Glu Thr Phe Thr Arg Cys Arg Pro Leu Thr Phe Pro Val Phe Arg Thr
35 40 45

Ile Ala Thr Gln Thr Asp
65 70

Thr Cys Pro Leu Leu Arg Asn Ser Ser His Ala Glu Pro Ala His Arg
1 5 10 15

Leu Cys Asp Gln Ala His Gln Asp Pro Asn Gly Val Leu Ile Gly Ile
130 135 140

<400> 1064

Met Gly Gly Cys Leu Leu Ser Leu Ser Leu Cys Phe Val Pro Val Val
1 5 10 15

Arg Leu Ala Ala Ser Val Ala Arg Trp Ala Trp Leu Glu Pro Trp Val
20 25 30

Arg Gln Val Ala Gly Gly Asp Arg Glu Arg Leu Arg Gly Lys Trp Trp
35 40 45

His Leu Leu Leu
50

<210> 1065

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1065

Asp Leu Ser Gly Gly Glu Trp Asn Val Thr Thr Arg Thr Arg Leu Trp
1 5 10 15

Glu Ile Gln Pro His Leu Cys Phe Val Met Ile Leu Lys Leu Asp Phe
20 25 30

Ser Cys Arg Asp Phe Leu Ser Ile Leu Pro Gly Val Leu Thr Tyr Ser
35 40 45

Leu Pro Val Lys Arg Phe Lys Lys Lys Asn
50 55

<210> 1066

<211> 21

<212> PRT

<213> Homo sapiens

<400> 1066

Cys Phe Phe Gln Leu Ser Pro Glu Glu Val Ser Trp Cys Pro Asn Val
1 5 10 15

Gly Ser Ser Phe Asp
20

<210> 1067

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1067

Phe Val Val Gln Ile Thr Leu Ser Asn Ile Ser Ser Thr Asn Val Ser
 20 25 30

Ile Leu Val Phe Val His Thr Ala Ile Thr Ser Pro Leu Gln Thr Phe
 35 40 45

Gln Phe Trp His Tyr Glu Glu Val Ala Val Asn Leu Lys Tyr Leu
 50 55 60

<210> 1071
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 1071
 Leu Gln
 1

<210> 1072
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 1072
 Leu Gln
 1

<210> 1073
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073
 Met Gly Leu Arg Gln Gln Leu Glu Leu Lys Leu Lys Leu Ile Leu Leu
 1 5 10 15

Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu
 20 25 30

Gly Asp Val Leu Val Arg Glu Thr Thr Val Ser Asp Ala Arg Pro Glu
 65 70 75 80
 Asp Arg Val His Phe Arg His Val Cys Xaa Pro Gln Xaa Lys Arg Val
 85 90 95
 Ser Leu Leu Asp Val Val Ile Ala Ala His Arg Leu Ile His Thr Lys
 100 105 110
 Gly Thr His Lys Ala Asn Tyr Cys Arg Arg His Thr Val Thr Arg Val
 115 120 125
 Arg Val Asp Val Val Arg Thr Glu Ala Arg Phe Lys Gln Leu Gly Arg
 130 135 140
 Gly Ile Thr Phe Pro Asp Ser Pro Leu Thr Arg Thr Glu His Thr Asp
 145 150 155 160
 Arg Phe Arg Pro Phe Phe Phe Gln Xaa Gly Phe Glu Phe Leu Phe His
 165 170 175
 His Ile Glu Gly Leu Ile Pro Gly Asp Trp Gly Lys Phe Ala Phe Phe
 180 185 190
 Val Ile Phe Thr Val Phe His Thr Gln Gln Arg Leu Arg Gln Thr Val
 195 200 205
 Phe Thr Val His Asp Phe Gly Gln Glu Ile Ala Leu Asn Ala Val Gln
 210 215 220
 Ala Thr Val Asn Arg Cys Val Arg Val Ala Leu Thr Xaa Gln Xaa Xaa
 225 230 235 240
 Val Pro Ala Ala Phe Arg Pro Glu Arg Arg Asn Gln Xaa Arg Arg Thr
 245 250 255
 Thr Gln Phe Ala Ile
 260

<210> 1075
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1075
 Phe Tyr Thr Asn Val Thr Tyr Lys Ser Asp Ala Thr Thr Leu Arg Phe
 1 5 10 15
 Pro Gly Arg Cys Asp Phe Ser Ser Ala Trp Glu Val Asp Leu His Gln
 20 25 30
 Pro Phe Gln Cys Ser Ala His Pro Gly Ala Gly Ile Thr Ala Pro His
 35 40 45
 Leu Leu Gly Glu Lys Pro Gly Arg Pro Glu Glu Val Gly
 50 55 60

<210> 1076
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1076
 Met Gly Leu Arg Gln Gln Leu Glu Leu Lys Leu Lys Leu Ile Leu Leu
 1 5 10 15
 Leu Cys Val Phe Trp Phe Lys Ser Cys Thr Tyr Ile Leu Ala Leu Leu
 20 25 30
 Phe Ser Val Val Pro Glu Arg Trp Trp Val Ala Ile Leu Val Gly Lys
 35 40 45
 Ser Glu Phe Ser Tyr Leu
 50

<210> 1077
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 1077
 Gln Tyr Leu Leu Ile
 1 5

<210> 1078
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078
 Met Xaa Ala Ser Gln Tyr Ile Leu Phe Phe Leu Gln Xaa Leu Gly Xaa
 1 5 10 15
 Lys Leu Gln Phe Gln Gly Ile Ser Ser Gln Gln Gln Val Glu
 20 25 30

Figure 1 is a schematic representation of the experimental design. It is divided into two main sections: 'Pretest' and 'Main Experiment'. The 'Pretest' section includes a 'Pretest' box with a 'Pretest' label and a 'Pretest' box with a 'Pretest' label. The 'Main Experiment' section includes a 'Main Experiment' box with a 'Main Experiment' label and a 'Main Experiment' box with a 'Main Experiment' label.

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<210> 1080
<211> 7
<212> PRT
<213> Homo sapiens
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<210> 1081
<211> 261
<212> PRT
<213> Homo sapiens
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578

Glu Glu Glu Ser Glu Glu Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala
 145 150 155 160
 Gln Tyr Glu Ser Lys Lys Ala Lys Lys Pro Ala Leu Val Ala Lys Ser
 165 170 175
 Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu Thr Asp Met Ala
 180 185 190
 Lys Leu Glu Glu Cys Val Arg Ser Ile Gln Ala Asp Gly Leu Val Trp
 195 200 205
 Gly Ser Ser Lys Leu Val Pro Val Gly Tyr Gly Ile Lys Lys Leu Gln
 210 215 220
 Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr Asp Met Leu Glu
 225 230 235 240
 Glu Gln Ile Thr Ala Phe Glu Asp Tyr Val Gln Ser Met Asp Val Ala
 245 250 255
 Ala Phe Asn Lys Ile
 260

<210> 1082

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1082

Phe Leu Leu Ser Leu His Leu Ala Ala Leu Gln
 1 5 10

<210> 1083

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1083

Met Pro Gly Gly Thr Pro Cys Leu Ala Val Pro Ser Ala Asn Thr Glu
 1 5 10 15

Ile Lys Leu Trp Ile Trp Tyr Gln Glu Trp Trp Leu Met Pro Val Ile
 20 25 30

Pro Ala Leu Trp Glu Ala Glu Asn Ser
 35 40

<210> 1084

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1084

Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His
 1 5 10 15
 Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly
 20 25 30
 Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp
 35 40 45
 Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu
 50 55 60
 Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln
 65 70 75 80
 Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His
 85 90 95
 Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro
 100 105 110
 Leu Ala Arg Pro Gly Ala Val Glu Ser Cys Asn His Glu Val Cys Ala
 115 120 125
 Gln Thr Gly Glu Thr Val Gln Pro Leu Met Ala Arg Arg
 130 135 140

<210> 1085
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
 1 5 10 15
 Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
 20 25 30
 Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
 35 40 45

<210> 1086
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Experimental design' to 'Data analysis' and 'Statistical analysis'. 'Experimental design' includes 'Study design' and 'Data collection'. 'Data analysis' includes 'Data management' and 'Data analysis'. 'Statistical analysis' includes 'Statistical analysis' and 'Statistical analysis'. The flow is as follows: Experimental design (Study design, Data collection) leads to Data analysis (Data management, Data analysis), which leads to Statistical analysis (Statistical analysis, Statistical analysis).

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<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Gly Phe Thr Gln Trp Ile Gln His Trp Gly Ser Arg Trp Ser Cys Leu
20 25 30

Gly Thr Gly Arg Cys Gly Ala Gly Gly Gly Ala Pro Trp Gly Gly Ser
50 55 60

Ala Ala Gly Pro Glu Pro Cys Pro Ala Xaa Arg Gln Leu Arg Pro Ser
85 90 95

Ala Trp Gly Arg Pro Ala Ala Leu Ser Gly Ala Pro Pro Ser Pro Arg
115 120 125

Pro Ala Arg Pro Ser Pro Ser Ala Pro Pro Arg Lys Leu Arg Glu Leu
145 150 155 160

Ala Pro Ala Leu Ala Ser Pro Glu Arg Gly Ser Tyr Xaa Ala Ala Ala
165 170 175

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<210> 1089
<211> 414
<212> PRT
<213> Homo sapiens
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582

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (410)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1089

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val
1 5 10 15

Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala
20 25 30

Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val
35 40 45

Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro
50 55 60

Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro
65 70 75 80

Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met
85 90 95

Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn
100 105 110

Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn
115 120 125

Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met
130 135 140

Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr
145 150 155 160

Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Xaa Thr Val
165 170 175

Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His
180 185 190

Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp
195 200 205

Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr
210 215 220

Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu
225 230 235 240

Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly
245 250 255

Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala
260 265 270

Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser Pro Ala Glu

285

Asp Ala Gln Ala Lys Cys Gln Ala Phe Xaa Gly Ile His Gly
405 410

<213> Homo sapiens

Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro Val Met
130 135 140

Val Trp Val His Gly Gly Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr
145 150 155 160

Asp Gly Ser Ala Leu Ala Ala Tyr Gly Asp Val Val Val Val Thr Val
165 170 175

Gln Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His
180 185 190

Ala Pro Gly Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp
195 200 205

Val Gln Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr
210 215 220

Val Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu
225 230 235 240

Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser Gly
245 250 255

Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro Leu Ala
260 265 270

Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser Pro Ala Glu
275 280 285

Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu Leu Val Leu Ser
290 295 300

Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr Val Asp Gly Thr Val
305 310 315 320

Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys Glu Lys Pro Phe His Ser
325 330 335

Val Pro Phe Leu Met Gly Val Asn Asn His Glu Phe Ser Trp Leu Ile
340 345 350

Pro Arg Gly Trp Gly Leu Leu Asp Thr Met Glu Gln Met Ser Arg Glu
355 360 365

Asp Met Leu Ala Ile Ser Thr Pro Val Leu Thr Ser Leu Asp Val Pro
370 375 380

Pro Glu Met Met Pro Thr Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser
385 390 395 400

Asp Ala Gln Ala Lys Cys Gln Ala Phe Gln Glu Phe Met Gly Asp Val
405 410 415

Phe Ile Asn Val Pro Thr Val Ser Phe Ser Arg Tyr Leu Arg Asp Ser
420 425 430

Gly Ser Pro Val Phe Phe Tyr Glu Phe Gln His Arg Pro Ser Ser Phe
435 440 445

Ala Lys Ile Lys Pro Ala Trp Val Lys Ala Asp His Gly Ala Glu Gly
450 455 460

Ala Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg Leu
 465 470 475 480

Ala Phe Pro Glu Ala Thr Glu Glu Glu Lys Gln Leu Ser Leu Thr Met
 485 490 495

Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn Ser Lys
 500 505 510

Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln Tyr Leu Glu
 515 520 525

Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg Glu Ala Trp Met
 530 535 540

Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile Gln Gln Trp His Gln
 545 550 555 560

Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp Leu
 565 570

<210> 1091

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091

Met Ile Ser Ser Leu Leu Ser Lys Ala Val Leu Ser Leu Trp Ile Ser
 1 5 10 15

Val Phe Ser Trp Asn Val Leu Gly Cys Lys Lys Leu Lys Thr Ile Ile
 20 25 30

Leu Gln Cys Phe Lys Glu Ala Ser Asp Leu Val Leu Arg Glu Arg Tyr
 35 40 45

Leu Gly Val Val Gln Ala Leu Ser Asp Asp Phe Ser Phe Cys Phe Thr
 50 55 60

Ile Leu Ser Xaa
 65

<210> 1092

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1092

Val Ser Lys Leu Phe Asp Leu Val Arg Val Ala Leu Trp Glu Ser Thr
 1 5 10 15

Trp Gln Ile Leu Leu Ile Ala Leu Leu Ile
 1 5 10

<210> 1096
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 1096
 Met Leu Arg Trp Arg Leu Leu Ala Thr Ala Leu Ile Ala Leu Cys Arg
 1 5 10 15

Arg Ser Ala Ser Ser Val Ala Ser Gly Glu Pro Pro Asp Ser Pro Pro
 20 25 30

Cys Pro Trp Arg Arg Arg
 35

<210> 1097
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097
 Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg
 1 5 10 15

Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe
 20 25 30

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe
 35 40 45

Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Xaa Leu Val
 50 55 60

<210> 1099
 <211> 148
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1099
 Leu Xaa Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu
 1 5 10 15

Xaa Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro
 20 25 30

Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser
 35 40 45

Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn
 50 55 60

Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile
 65 70 75 80

Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile Phe
 85 90 95

Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp Pro
 100 105 110

Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met Ala
 115 120 125

Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser Arg
 130 135 140

Met Ser Gly His
 145

<210> 1100
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1100
 Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg
 1 5 10 15

Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe
 20 25 30

Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe
 35 40 45
 Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val
 50 55 60
 Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val
 65 70 75 80
 Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Ile
 85 90 95
 Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro Phe Leu Ser Trp
 100 105 110
 Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly Val Leu Phe Met
 115 120 125
 Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala Thr Gly Gln Ser
 130 135 140
 Arg Met Ser Gly His
 145

<210> 1101
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1101
 Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met
 1 5 10 15
 Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys
 20 25 30
 Ile Phe Glu Lys His Ser Arg Ile
 35 40

<210> 1102
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Met Ile Leu Arg Gly Val Tyr Ser Met Val Pro Ile Tyr Thr His Met
 1 5 10 15
 Ile Phe Leu Phe Thr Phe Phe Leu Thr Ile Ser Gly Lys Tyr Phe Lys
 20 25 30
 Ile Phe Glu Lys His Ser Arg Ile
 35 40

<210> 1103
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1103
 Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys
 1 5 10 15
 Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu
 20 25 30
 Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Leu Val Ile Ile Met
 35 40 45
 Ala Arg Ser Ser Gln Leu Lys Arg
 50 55

<210> 1104
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1104
 Gln Gly Phe Ile Phe Trp Thr Gln Tyr Asn Ile Gly Tyr Ile Ser Leu
 1 5 10 15
 Arg Ser Ile Gly Phe Gln His Lys Ser Leu Pro Ile Arg Lys Ser Lys
 20 25 30
 Trp Arg Lys His Gln Ile Ile Ile Ile Thr Gln Gln Lys Cys Gly
 35 40 45
 Asp Trp Gln Trp Phe Trp Gly Phe Ile Ser Ser Ile Arg Ala Ser Ala
 50 55 60
 Ser His Phe Met Lys Leu Leu Pro Ser Glu Arg Thr Leu Asn Thr Pro
 65 70 75 80
 Arg Ser Tyr Cys Ser Phe Phe Leu Asn Gly Ile Leu Lys Asn Trp Leu
 85 90 95
 Lys Arg Glu Glu His Ser Lys Tyr Ile Leu
 100 105

<210> 1105
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1105
 Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys
 1 5 10 15
 Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu
 20 25 30

<400> 1107
Val Leu Arg Asn
1

<210> 1108
<211> 4
<212> PRT
<213> Homo sapiens

<400> 1108
Val Leu Arg Asn
1

<210> 1109
<211> 54
<212> PRT
<213> Homo sapiens

<400> 1109
Met Ser Ser Leu Gly Leu Gln Glu Pro Gln Lys Asn Leu Thr Ser Phe
1 5 10 15
Pro Gln Ile Ser Pro Tyr Pro Leu Ser Ile Phe Thr Pro Ile Ile Ile
20 25 30
Tyr Phe His Thr Ile Gln Leu Ser Lys Asp Ser Trp Arg Leu Thr Cys
35 40 45
Ile Phe Arg Leu Thr Glu
50

<210> 1110
<211> 5
<212> PRT
<213> Homo sapiens

<400> 1110
Thr Thr Met Thr Gly
1 5

<210> 1111
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1111
Met Pro Thr Thr Val Gly Ala Gln Ile Phe Ile Phe Ile Phe Leu Leu
1 5 10 15
Cys Thr Leu Phe Phe Leu Pro Phe Tyr Gly Cys Leu Lys Ser Arg Glu
20 25 30

[illegible]

Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp
1 5 10 15

Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val
35 40 45

Val Phe Leu Leu Ser Lys Val Ile Glu Leu Gly Asp Thr Ala Phe Ile
65 70 75 80

Thr Val Leu Val Tyr Thr Ser Phe Gly Tyr Lys Asn Lys Val Pro Ala
100 105 110

Thr Tyr Tyr Thr Leu Lys Ala Ala Asn Val Lys Pro Pro Lys Met Leu
130 135 140

Pro Met Leu Ile Thr Ser Leu Gln Ile Leu Gln Met Phe Val Gly Ala
145 150 155 160

Ile Val Ser Ile Leu Thr Tyr Ile Trp Arg Gln Asp Gln Gly Cys His
165 170 175

Thr Thr Met Glu His Leu Phe Trp Ser Phe Ile Leu Tyr Met Thr Tyr
180 185 190

Phe Ile Leu Phe Ala His Phe Phe Cys Gln Thr Tyr Ile Arg Pro Lys
195 200 205

Val Lys Ala Lys Thr Lys Ser Gln
210 215

Met Lys Glu Arg Lys Gly Phe Asn Leu Gln Gly Pro Leu Ile Leu Trp
1 5 10 15

Ser Phe Cys Leu Ala Ile Phe Ser Ile Leu Gly Ala Val Arg Met Trp
20 25 30

Gly Ile Met Gly Thr Val Leu Leu Thr Gly Gly Leu Lys Gln Thr Val

45

Val Lys Ala Lys Thr Lys Ser Gln
210 215

<213> Homo sapiens

Val Leu Gly Leu Gly Val Val Leu Thr Pro Ile Ile Pro Val Leu Trp
1 5 10 15

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in Study 2 is further divided into 'Control' and 'Intervention' groups. The 'Intervention' group is further divided into 'Intervention 1' and 'Intervention 2'.

Gln Phe Ile Val Ser Glu Lys Gln Gly Thr His Leu His Xaa Leu Gln
20 25 30

Glu Thr Val Leu Pro Phe Asn Leu Lys Thr Arg Lys Leu Asn Phe Asn
35 40 45

Arg Asn Leu Leu Ser Met Leu
50 55

<211> 32

<213> Home

<213> Homo sapiens

Met His Met Trp Ile Leu Ser Leu His Phe Ile Phe Thr Pro Arg Leu
1 5 10 15

Val Leu Cys Glu Val Arg Pro Asn Lys Ile Val Glu Asp Thr Ile Ile
20 25 30

<211> 1

<212> PRT

<213> Homo sapiens

Ala

1

<211> 51

<212> PRT

<213> Ном

<220>

<221> SITE

 $\langle 222 \rangle \quad \{20\}$

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1120

Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe
 1 5 10 15
 Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu
 20 25 30
 Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu
 35 40 45
 Lys Ser Cys
 50

<210> 1121
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1121
 Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe
 1 5 10 15
 Val Ser Cys Cys Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu
 20 25 30
 Asp Ser Ile Thr Phe Arg Asp Pro Lys Lys Lys Cys Leu Cys Asn Leu
 35 40 45
 Lys Ser Cys
 50

<210> 1122
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 1122
 Tyr Phe
 1

<210> 1123
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1123
 Leu Thr Thr Pro Tyr Gly Gly Leu Cys Lys Gln Ser Thr Arg Gly Ser
 1 5 10 15
 Ile Ile Ser Thr Trp Gln Cys Thr Trp Trp Leu Cys Asp Leu Glu Lys
 20 25 30
 Val Ser Tyr Ser Cys Leu Cys Val Leu Thr Leu Glu Thr Glu Thr Leu
 35 40 45

Phe Val Val Phe Thr Leu Phe Gln Gln Gln Lys Leu Phe Gln Gly Lys
 50 55 60
 Ser Tyr Arg Thr Phe Lys His Val Cys Ile His Thr Tyr Pro Ile Pro
 65 70 75 80
 His Tyr Ile Lys Val Ile Leu Leu
 85

<210> 1124
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1124
 Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu
 1 5 10 15
 Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His
 20 25 30
 Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu
 35 40 45
 Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu
 50 55 60
 Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser
 65 70 75 80
 Pro Phe

<210> 1125
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1125
 Met Asn Leu Gly Trp Tyr Gln Met His Pro Leu Lys Met Ile Trp Leu
 1 5 10 15
 Thr Ile Phe Leu Thr Trp Leu Met Arg Gln Ala Ser Pro Thr Gly His
 20 25 30
 Asp Leu Glu Val Lys Val Phe Cys Cys Tyr Cys Gly Leu Lys Tyr Leu
 35 40 45
 Val Met Gly Glu Glu Cys Arg Val Val Ala Leu Ala Gln Thr Gln Glu
 50 55 60
 Asn Pro Phe Ser Pro Leu Phe Tyr Phe Cys Tyr Ser Asp His Leu Ser
 65 70 75 80
 Pro Phe

<210> 1126
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1126
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Leu Pro Ser Val Val Cys
 1 5 10 15

Xaa Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys
 20 25 30

Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp
 35 40 45

Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu
 50 55 60

Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala
 65 70 75 80

Gly Met Leu Leu

<210> 1127
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 1127
 Gly Leu Phe Ala Leu Ser Phe Leu Phe Leu Leu Val Val Met Leu Gly
 1 5 10 15

Cys Gln Phe Asp Ile Phe Leu Ala Phe
 20 25

<210> 1128
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1128
 Met Gly Thr Phe Ser Leu Met Leu Leu Leu Leu Pro Ser Val Val Cys
 1 5 10 15

Phe Ser Phe Lys Val Arg Pro Leu Phe Cys Arg Ala Ala Val Val Cys
 20 25 30

Ser Gly Ser Thr Ser Asp Pro Ile His Leu Gly Pro Ser His Thr Trp
 35 40 45
 Arg Cys His Gln Trp Arg Leu Gln Asn Ser Lys Asp Gly Cys Leu Leu
 50 55 60
 Leu Pro Pro Gly Ser Pro Ser Gln Arg Glu Thr Asp Leu Met Leu Ala
 65 70 75 80
 Gly Met Leu Leu

<210> 1129
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 1129
 Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
 1 5 10 15
 Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
 20 25 30
 Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
 35 40 45
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
 50 55 60
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
 65 70 75 80
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
 85 90 95
 Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile
 100 105 110
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
 115 120 125
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
 130 135 140
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
 145 150 155 160
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
 165 170 175
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
 180 185 190
 Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
 195 200 205
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser


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<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> .1130
Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
  1          5          10          15
Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
          20          25          30
Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
          35          40          45
Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
          50          55          60
Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
  65          70          75          80
Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
          85          90          95
Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile
          100          105          110
Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
          115          120          125
Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
          130          135          140
Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
  145          150          155          160
Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
          165          170          175
Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
          180          185          190
Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
          195          200          205
Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser

```


<400> 1131

Lys Pro Lys Val Phe Ile Ile His Ser
210 215

<213> Homo sapiens

<220>


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<220>
<221> SITE
<222> (253)
<223> Xaa equals any of the naturally occurring L-amino acids
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Ser Trp Lys Cys Cys Gly Val Glu Gly Trp Gly Gly Gln Leu Leu Thr
225 230 235 240

The diagram illustrates the experimental design flow. It begins with a box labeled '1000' representing the initial subject pool. This pool is divided into two groups, 'Group 1' and 'Group 2', each with '500' subjects. Both groups undergo a 'Pre-test' phase. Following the pre-test, Group 1 enters a 'Training' phase for '10 days', while Group 2 remains in a 'Post-test' phase. After the 10-day training, Group 1 moves to a 'Post-follow-up' phase. Both groups then enter a 'Follow-up' phase for '10 days'. Finally, both groups are assessed in a 'Post-test' phase. The diagram uses arrows to indicate the progression of time and the flow of subjects through the different experimental conditions.

606

Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
 50 55 60
 Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
 65 70 75 80
 Leu Phe Asn Ser Leu Gln Ala Gln Arg Gly Ile Thr Val
 85 90

<210> 1137
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1137
 Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
 1 5 10 15
 Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
 20 25 30
 Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
 35 40 45
 Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
 50 55 60
 Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
 65 70 75 80
 Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile
 85 90 95
 Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr Ala Arg
 100 105 110
 Leu Asp Gln Ala His Ser Ala Ser Gln Glu
 115 120

<210> 1138
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 1138
 Ala Pro Gly Gln Thr Pro Ser Leu Cys Ser Trp Leu Leu Pro Leu Pro
 1 5 10 15
 Ser Thr Trp Ala Thr Thr Gly His Val Cys Phe Ser Asp Ile Leu Gln
 20 25 30
 Thr Pro Asp Gly Gly Gln Leu Leu Leu Asp Trp Ala Lys Gln Pro Asp
 35 40 45
 Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu Leu
 50 55 60

Pro Gly Ile Thr Gly Ser Ser Gln Glu Thr Tyr Val Leu His Leu Val
 65 70 75 80
 Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn Arg
 85 90 95
 Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala Ser
 100 105 110
 Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg Tyr
 115 120 125
 Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile Leu
 130 135 140
 Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val Ala
 145 150 155 160
 Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg Ser
 165 170 175
 Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr Ala
 180 185 190
 Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys Arg
 195 200 205
 Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro Leu
 210 215 220
 Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu Pro
 225 230 235 240
 Arg

<210> 1139
 <211> 242
 <212> PRT
 <213> Homo sapiens

<400> 1139
 Met Ala Pro Gly Gln Thr Pro Ser Leu Cys Ser Trp Leu Leu Pro Leu
 1 5 10 15
 Pro Ser Thr Trp Ala Thr Thr Gly His Val Cys Phe Ser Asp Ile Leu
 20 25 30
 Gln Thr Pro Asp Gly Gly Gln Leu Leu Asp Trp Ala Lys Gln Pro
 35 40 45
 Asp Ser Ser Gln Asp Pro Asp Pro Thr Thr Gln Pro Ile Val Leu Leu
 50 55 60
 Leu Pro Gly Ile Thr Gly Ser Ser Gln Glu Thr Tyr Val Leu His Leu
 65 70 75 80

Val Asn Gln Ala Leu Arg Asp Gly Tyr Gln Ala Val Val Phe Asn Asn
85 90 95

Arg Gly Cys Arg Gly Glu Glu Leu Arg Thr His Arg Ala Phe Cys Ala
100 105 110

Ser Asn Thr Glu Asp Leu Glu Thr Val Val Asn His Ile Lys His Arg
115 120 125

Tyr Pro Gln Ala Pro Leu Leu Ala Val Gly Ile Ser Phe Gly Gly Ile
130 135 140

Leu Val Leu Asn His Leu Ala Gln Ala Arg Gln Ala Ala Gly Leu Val
145 150 155 160

Ala Ala Leu Thr Leu Ser Ala Cys Trp Asp Ser Phe Glu Thr Thr Arg
165 170 175

Ser Leu Glu Thr Pro Leu Asn Ser Leu Leu Phe Asn Gln Pro Leu Thr
180 185 190

Ala Gly Leu Cys Gln Leu Val Glu Arg Leu Ser Tyr Gly Lys Thr Cys
195 200 205

Arg Pro Val Gln Ser Ala Ser Leu Met Ser Ala Thr His Leu Trp Pro
210 215 220

Leu Asp Ile Lys Thr Val Leu Pro Thr Thr Lys Gln Gln Ala Leu Glu
225 230 235 240

Pro Arg

<210> 1140

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1140

Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu
1 5 10 15

Leu Val Leu Ser Leu Leu Gln Val Pro Ala Gln Ala Val Val Arg Ala
20 25 30

Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala
35 40 45

Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met
50 55 60

Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu
65 70 75 80

Cys Lys Gln Ser Val Ala Ala Thr Glu Asp Ser Phe Asp Ser Thr Thr
 115 120 125
 Tyr Ser Phe Arg Asp Glu Asp Pro Ser Leu Pro Gly His Arg Pro Pro
 130 135 140
 Ile Trp Ala Ile Gln Val Gln Tyr Ala Pro Gly Gly Trp Ser Cys Trp
 145 150 155 160
 Ala Ala Pro Val Pro Thr Ala Thr Ala Ala Pro Arg Pro Trp Arg Gln
 165 170 175
 Ser Ile Pro Leu Ser Pro Gln Pro Leu Leu Arg Pro Leu Val Ser Lys
 180 185 190
 Asp Leu Gly Gln Gly Gly Gly Cys Asn Glu Glu Cys Phe Trp Ser Glu
 195 200 205
 Lys Asn Lys Val Gly Leu Lys Ala Glu Lys Lys Lys Lys Lys Lys Thr
 210 215 220

Arg
225

<210> 1142
 <211> 359
 <212> PRT
 <213> Homo sapiens

<400> 1142
 Met Gly Trp Pro Arg Pro Gly Arg Ala Leu Val Ala Val Lys Ala Leu
 1 5 10 15
 Leu Val Leu Ser Leu Leu Gln Val Pro Ala Gln Ala Val Val Arg Ala
 20 25 30
 Val Leu Glu Asp Asn Ser Ser Ser Val Asp Phe Ala Asp Leu Pro Ala
 35 40 45
 Leu Phe Gly Val Pro Leu Ala Pro Glu Gly Ile Arg Gly Tyr Leu Met
 50 55 60
 Glu Val Lys Pro Ala Asn Ala Cys His Pro Ile Glu Ala Pro Arg Leu
 65 70 75 80
 Gly Asn Arg Ser Leu Gly Ala Ile Val Leu Ile Arg Arg Tyr Asp Cys
 85 90 95
 Thr Phe Asp Leu Lys Val Leu Asn Ala Gln Arg Ala Gly Phe Glu Ala
 100 105 110
 Ala Ile Val His Asn Val His Ser Asp Asp Leu Val Ser Met Thr His
 115 120 125
 Val Tyr Glu Asp Leu Arg Gly Gln Ile Ala Ile Pro Ser Val Phe Val
 130 135 140

Ser Glu Ala Ala Ser Gln Asp Leu Arg Val Ile Leu Gly Cys Asn Lys
 145 150 155 160
 Ser Ala His Ala Leu Leu Leu Pro Asp Asp Pro Pro Cys His Asp Leu
 165 170 175
 Gly Cys His Pro Val Leu Thr Val Ser Trp Val Leu Gly Cys Thr Leu
 180 185 190
 Ala Leu Val Val Ser Ala Phe Phe Val Leu Asn His Leu Trp Leu Trp
 195 200 205
 Ala Gln Ala Cys Cys Ser His Arg Arg Pro Val Lys Thr Ser Thr Cys
 210 215 220
 Gln Lys Ala Gln Val Arg Thr Phe Thr Trp His Asn Asp Leu Cys Ala
 225 230 235 240
 Ile Cys Leu Asp Glu Tyr Glu Glu Gly Asp Gln Leu Lys Ile Leu Pro
 245 250 255
 Cys Ser His Thr Tyr His Cys Lys Cys Ile Asp Pro Trp Phe Ser Gln
 260 265 270
 Ala Pro Arg Arg Ser Cys Pro Val Cys Lys Gln Ser Val Ala Ala Thr
 275 280 285
 Glu Asp Ser Phe Asp Ser Thr Thr Tyr Ser Phe Arg Asp Glu Asp Pro
 290 295 300
 Ser Leu Pro Gly His Arg Pro Pro Ile Trp Ala Ile Gln Val Gln Leu
 305 310 315 320
 Arg Ser Arg Arg Leu Glu Leu Leu Gly Arg Ala Ser Pro His Cys His
 325 330 335
 Cys Ser Thr Thr Ser Leu Glu Ala Glu Tyr Thr Thr Val Ser Ser Ala
 340 345 350
 Pro Pro Glu Ala Pro Gly Gln
 355

<210> 1143
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1143
 Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu
 1 5 10 15
 Pro Leu Leu Leu Leu Leu Leu Leu Phe Pro Leu Leu Pro Trp Pro
 20 25 30
 Pro Pro Leu Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro
 35 40 45
 Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu

50 55 60

Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro
65 70 75 80

Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro
 85 90 95

Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser
 100 105 110

Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His
 115 120 125

Ser Pro Thr Arg Gln
130

<210> 1144
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144
Pro Cys Cys Phe His Lys Pro His Ala Ser His Ile Met Asn Phe Leu
1 5 10 15

Ile Arg Ile Gln Cys Ile Tyr Leu Pro Lys Ile Val Cys Ala Tyr Ser
 20 25 30

Lys Tyr Glu Gln Phe Leu Asn Asn Gly Ser Ile Ile Phe Val Gln Asn
 35 40 45

Ala Lys Asn Trp Gly Gln Ala Trp Trp His Thr Pro Val Ile Pro Ala
50 55 60

Leu Trp Glu Ala Lys Val Gly Xaa Ser Pro Glu Val Arg Ser Leu Arg
65 70 75 80

Pro Ala Trp Pro Ala Trp
 85

<210> 1145
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1145
Met Trp His Thr Lys Pro Leu Gly Ser Gly Ser Cys Val Pro Leu Leu
1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Leu Phe Pro Leu Leu Pro Trp Pro

20

25

30

Pro Pro Leu Pro Pro Pro Pro Pro Ser Ser Leu His Pro Phe Ala Pro
35 40 45

Ala Phe Pro Ala Thr Gly Ser Leu Ser Ser Asn Asn Ser Gln Leu Leu
50 55 60

Ala Pro Leu Arg Leu Gln Asn Ala Leu His Leu Phe Lys Cys Phe Pro
65 70 75 80

Val Leu Phe Pro Leu His Lys Ile Ile Ser Phe His Pro Glu Tyr Pro
85 90 95

Trp Gln Ala Pro Ile Phe Gln Tyr Phe Tyr Leu Ser Ile Pro Ser Ser
100 105 110

Ser Leu His Pro Glu His Leu Gly His Ser Phe Val Ser Thr Leu His
115 120 125

Ser Pro Thr Arg Gln
130

<210> 1146

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1146

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp
20 25 30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
35 40 45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly
50 55 60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu
65 70 75 80

Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg
85 90 95

Val Thr Gly

<210> 1147

Figure 1 consists of 12 diagrams labeled (a) through (l), illustrating the stages of a chemical reaction. The diagrams show the interaction between various chemical species and their resulting complexes. (a) shows a mixture of CH_3OH and H_2O . (b) shows the addition of H_2SO_4 . (c) shows the formation of a complex $\text{CH}_3\text{OH} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{SO}_4$. (d) shows the addition of H_2O . (e) shows the formation of a complex $\text{CH}_3\text{OH} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{SO}_4 \cdots \text{H}_2\text{O}$. (f) shows the addition of H_2O . (g) shows the formation of a complex $\text{CH}_3\text{OH} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{SO}_4 \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O}$. (h) shows the addition of H_2O . (i) shows the formation of a complex $\text{CH}_3\text{OH} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{SO}_4 \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O}$. (j) shows the addition of H_2O . (k) shows the formation of a complex $\text{CH}_3\text{OH} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{SO}_4 \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O} \cdots \text{H}_2\text{O}$. (l) shows the final product, CH_3OH .

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu
1 5 10 15

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
35 40 45

Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Pro
50 55 60

Cys Ile Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg
65 70 75 80

Asn Phe Leu Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala
85 90 95

Arg Val Thr Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu
100 105 110

Gly Thr Arg Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg
115 120 125

Ala Gly Ser Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly
130 135 140

Val Cys Arg Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro
145 150 155 160

Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala Gly Pro Glu
165 170 175

Phe Leu Trp Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala
180 185 190

Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg
195 200 205

Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser
210 215 220

Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp
225 230 235 240

Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala
245 250 255

Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser
260 265 270

Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr
275 280 285

Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln

290

295

300

Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile
 305 310 315 320
 Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu Leu Gly Ile
 325 330 335
 Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys Ser Lys Phe
 340 345 350
 Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val
 355 360 365
 Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro
 370 375 380
 Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly
 385 390 395 400
 Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe Gly Pro Leu
 405 410 415
 Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val Pro Pro Ser
 420 425 430
 Thr Thr Gln Asp Ser Gly Ala Leu Trp Gly Val Leu Pro Gly Phe Thr
 435 440 445
 Ser Ile Ser Ser Pro Ser Pro
 450 455

<210> 1148

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148
 Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys
 1 5 10 15
 Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met
 20 25 30
 Val Leu Gly Ser Leu Leu Ala Leu Leu Leu Pro Leu Gly Ala Val Glu
 35 40 45
 Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys
 50 55 60
 Pro Asp Arg Ala Gln His Ala Ala Pro Ser Ala Pro Xaa Arg Pro Arg
 65 70 75 80
 Ser Xaa Xaa Ser Pro Xaa Gly Ala Arg Arg Xaa Leu Val Ala Lys Thr
 85 90 95
 Lys Ala Phe Ser Ser Gly Val Lys Phe Gly Lys Ala Gln Glu Leu Ala
 100 105 110
 Leu Glu Pro Arg Pro Trp Lys Ile Lys Xaa Ala Xaa Gly Gln Ser Arg
 115 120 125
 Gly Lys Lys Ala Gln Lys Ser Ser Phe Asn Ala Pro Pro Phe Lys Glu
 130 135 140
 Trp Asp Pro Gly Asn Phe Pro Gly Asp
 145 150

<210> 1149
 <211> 361
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149

Ala Xaa Pro Xaa Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln Ala
1 5 10 15

Leu Glu Xaa Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu Phe
20 25 30

Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr Glu
35 40 45

Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp Tyr
50 55 60

Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala Leu
65 70 75 80

Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln Arg
85 90 95

Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile Pro
100 105 110

Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr His
115 120 125

His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu Ser
130 135 140

Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys Ser
145 150 155 160

Leu Glu Glu Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys Tyr
165 170 175

Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser Asp
180 185 190

Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val Glu
195 200 205

Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile Pro
210 215 220

Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln Trp
225 230 235 240

Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala Ala
245 250 255

Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly Asn
260 265 270

Gly Arg Thr Ser Arg Leu Leu Met Asn Leu Ile Leu Met Gln Ala Gly

275 280 285

Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr His
290 295 300

Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg Phe
305 310 315 320

Ile Ala Lys Cys Thr Glu Thr Thr Leu Asp Thr Leu Leu Phe Ala Thr
325 330 335

Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser Gly
340 345 350

Phe Lys Glu Thr Leu Pro Val Lys Pro
355 360

<210> 1150
<211> 458
<212> PRT
<213> Homo sapiens

<400> 1150

Met Met Leu Ile Pro Met Ala Ser Val Met Ala Val Thr Glu Pro Lys
1 5 10 15

Trp Val Ser Val Trp Ser Arg Phe Leu Trp Val Thr Leu Leu Ser Met
20 25 30

Val Leu Gly Ser Leu Leu Ala Leu Leu Leu Pro Leu Gly Ala Val Glu
35 40 45

Glu Gln Cys Leu Ala Val Leu Lys Gly Leu Tyr Leu Leu Arg Ser Lys
50 55 60

Pro Asp Arg Ala Gln His Ala Ala Thr Lys Cys Thr Ser Pro Ser Thr
65 70 75 80

Glu Leu Ser Ile Thr Ser Arg Gly Ala Thr Leu Leu Val Ala Lys Thr
85 90 95

Lys Ala Ser Pro Ala Gly Lys Leu Glu Ala Arg Ala Ala Leu Asn Gln
100 105 110

Ala Leu Glu Met Lys Arg Gln Gly Lys Arg Glu Lys Ala Gln Lys Leu
115 120 125

Phe Met His Ala Leu Lys Met Asp Pro Asp Phe Val Asp Ala Leu Thr
130 135 140

Glu Phe Gly Ile Phe Ser Glu Glu Asp Lys Asp Ile Ile Gln Ala Asp
145 150 155 160

Tyr Leu Tyr Thr Arg Ala Leu Thr Ile Ser Pro Tyr His Glu Lys Ala
165 170 175

Leu Val Asn Arg Asp Arg Thr Leu Pro Leu Val Glu Glu Ile Asp Gln
180 185 190

Arg Tyr Phe Ser Ile Ile Asp Ser Lys Val Lys Lys Val Met Ser Ile
195 200 205

Pro Lys Gly Asn Ser Ala Leu Arg Arg Val Met Glu Glu Thr Tyr Tyr
210 215 220

His His Ile Tyr His Thr Val Ala Ile Glu Gly Asn Thr Leu Thr Leu
225 230 235 240

Ser Glu Ile Arg His Ile Leu Glu Thr Arg Tyr Ala Val Pro Gly Lys
245 250 255

Ser Leu Glu Glu Gln Asn Glu Val Ile Gly Met His Ala Ala Met Lys
260 265 270

Tyr Ile Asn Thr Thr Leu Val Ser Arg Ile Gly Ser Val Thr Ile Ser
275 280 285

Asp Val Leu Glu Ile His Arg Arg Val Leu Gly Tyr Val Asp Pro Val
290 295 300

Glu Ala Gly Arg Phe Arg Thr Thr Gln Val Leu Val Gly His His Ile
305 310 315 320

Pro Pro His Pro Gln Asp Val Glu Lys Gln Met Gln Glu Phe Val Gln
325 330 335

Trp Leu Asn Ser Glu Glu Ala Met Asn Leu His Pro Val Glu Phe Ala
340 345 350

Ala Leu Ala His Tyr Lys Leu Val Tyr Ile His Pro Phe Ile Asp Gly
355 360 365

Asn Gly Arg Thr Ser Arg Leu Leu Met Asn Leu Ile Leu Met Gln Ala
370 375 380

Gly Tyr Pro Pro Ile Thr Ile Arg Lys Glu Gln Arg Ser Asp Tyr Tyr
385 390 395 400

His Val Leu Glu Ala Ala Asn Glu Gly Asp Val Arg Pro Phe Ile Arg
405 410 415

Phe Ile Ala Lys Cys Thr Glu Thr Thr Leu Asp Thr Leu Leu Phe Ala
420 425 430

Thr Thr Glu Tyr Ser Val Ala Leu Pro Glu Ala Gln Pro Asn His Ser
435 440 445

Gly Phe Lys Glu Thr Leu Pro Val Lys Pro
450 455

<210> 1151

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1151
 Ala Gln Arg Asn Pro Gly Ala Val Pro Ala Val Trp Arg Gln Ala Gly
 1 5 10 15
 Val Thr Phe Thr Ser Ala Lys Gly Arg Ser Ser Pro Tyr Trp Ser Leu
 20 25 30
 His Pro Gln Ile Ile Leu Leu Arg Lys Leu Ser Ser Ser Xaa Gln Lys
 35 40 45
 Pro Arg Ser Ser Ser Ala Gln Cys Gly Arg Asn Ala Ala Ala Gly Leu
 50 55 60
 Pro His Cys Leu Arg Ala Ser Trp Ser Arg Leu Leu Lys Ile Glu Trp
 65 70 75 80
 Gln Val Gly Leu Ala Trp Ala Gly Ala Asp Val Leu Cys Gly His Pro
 85 90 95
 Val Pro Lys Arg Pro Pro Thr Leu Gly Pro Gln Thr Ser Gly Ala Asp
 100 105 110
 Trp His Leu Arg Gly His Ser Pro Thr His Leu Leu Gln
 115 120 125

<210> 1152
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1152
 Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro
 1 5 10 15
 Arg

<210> 1153
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1153
 Met Leu Ser Gly Ser Leu Gly Ser Ala Val Cys Met Ser Ser Gln Pro
 1 5 10 15
 Arg

<210> 1154

Figure 1. Schematic representation of the experimental design. The study was divided into two parts: a pretest and a main study. The pretest was conducted with 10 participants to determine the appropriate number of items for the questionnaire. The main study was conducted with 100 participants, divided into two groups: a control group and an intervention group. The control group received a standard questionnaire, while the intervention group received a questionnaire with additional questions about the intervention. The results of the pretest and main study are presented in the text.

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<220>
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<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
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<222> (240)  
<223> Xaa equals any of the naturally occurring L-amino acids
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1 5 10 15

Gln Val Gln Gln His Gln Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg
20 25 30

Asp Leu Val Asp Ala Phe Leu Leu Lys Met Ala Gln Glu Glu Gln Asn
35 40 45

Pro Gly Thr Glu Phe Thr Asn Lys Asn Met Leu Met Thr Val Ile Tyr
50 55 60

Leu Leu Phe Ala Gly Thr Met Thr Val Ser Thr Thr Val Gly Tyr Thr
65 70 75 80

Leu Leu Leu Leu Met Lys Tyr Pro His Val Gln Lys Trp Val Arg Glu
85 90 95

Glu Leu Asn Arg Glu Leu Gly Ala Gly Gln Ala Pro Ser Leu Gly Asp
100 105 110

Arg Thr Arg Ser Leu Thr Pro Thr Arg Phe Cys Met Arg Arg Ser Gly
115 120 125

Cys Trp Arg Trp Cys Pro Trp Glu Tyr Pro Ala Pro Ser Cys Gly Pro
130 135 140

Pro Ala Ser Glu Gly Thr Pro Cys Pro Arg Ala Arg Arg Ser Ser Pro
145 150 155 160

Ser Leu Ala Pro Ser Cys Met Thr Pro Thr Ser Ser Ser Thr Gln Lys
165 170 175

Ser Ser Thr Gln Thr Val Ser Trp Met Gln Met Asp Gly Ser Gly Ser
180 185 190

Met Arg Arg Ser Cys Leu Leu Leu Lys Glu Ala Cys Leu Pro Trp Lys
195 200 205

Gly Pro Gly Lys Ser Gly Ala Leu Pro Xaa Leu His His His Pro Thr

220

Ala His Arg Gln Trp Pro Phe Gln His Ser Pro Ser Leu Pro
245 250

<400> 1155
Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu
1 5 10 15

Leu Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu
20 25 30

Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu
35 40 45

Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
50 55 60

Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val
65 70 75 80

Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu
85 90 95

Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp
100 105 110

Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg
115 120 125

Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu
130 135 140

Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe
145 150 155 160

Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln
165 170 175

Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser
180 185 190

Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr
195 200 205

Leu Leu Gly Val Ser Ser Gln Gly Gly Gln Val Ser Gly Trp Asp Pro
210 215 220

Ser Pro Thr Thr Phe Pro Glu Gly Ser Cys Gln Gly Pro Met Arg Thr
225 230 235 240

[illegible]

```

<400> 1156
Met Glu Ala Thr Gly Thr Trp Ala Leu Leu Leu Ala Leu Ala Leu Leu
  1          5          10          15
Leu Leu Leu Thr Leu Ala Leu Ser Gly Thr Arg Ala Arg Gly His Leu
          20          25          30
Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu
          35          40          45
Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
          50          55          60
Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val
  65          70          75          80
Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu
          85          90          95
Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp
          100          105          110
Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg
          115          120          125
Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu
          130          135          140
Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe
          145          150          155          160
Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln
          165          170          175
Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser
          180          185          190
Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr
          195          200          205

```


Figure 1: Schematic representation of the experimental design. The figure shows a flowchart of the experimental design. It starts with 'Pretest' (N=10) leading to 'Main Experiment' (N=100). The 'Main Experiment' is divided into 'Control' (N=50) and 'Treatment' (N=50). The 'Control' group is further divided into 'Control 1' (N=25) and 'Control 2' (N=25). The 'Treatment' group is divided into 'Treatment 1' (N=25) and 'Treatment 2' (N=25). The 'Treatment 1' group is further divided into 'Treatment 1a' (N=12.5) and 'Treatment 1b' (N=12.5). The 'Treatment 2' group is further divided into 'Treatment 2a' (N=12.5) and 'Treatment 2b' (N=12.5). The 'Treatment 1a' and 'Treatment 2a' groups are further divided into 'Treatment 1a1' (N=6.25) and 'Treatment 1a2' (N=6.25), and 'Treatment 2a1' (N=6.25) and 'Treatment 2a2' (N=6.25) respectively. The 'Treatment 1b' and 'Treatment 2b' groups are further divided into 'Treatment 1b1' (N=6.25) and 'Treatment 1b2' (N=6.25), and 'Treatment 2b1' (N=6.25) and 'Treatment 2b2' (N=6.25) respectively. The 'Treatment 1a1' and 'Treatment 1b1' groups are further divided into 'Treatment 1a1a' (N=3.125) and 'Treatment 1a1b' (N=3.125), and 'Treatment 1b1a' (N=3.125) and 'Treatment 1b1b' (N=3.125) respectively. The 'Treatment 1a2' and 'Treatment 1b2' groups are further divided into 'Treatment 1a2a' (N=3.125) and 'Treatment 1a2b' (N=3.125), and 'Treatment 1b2a' (N=3.125) and 'Treatment 1b2b' (N=3.125) respectively. The 'Treatment 2a1' and 'Treatment 2b1' groups are further divided into 'Treatment 2a1a' (N=3.125) and 'Treatment 2a1b' (N=3.125), and 'Treatment 2b1a' (N=3.125) and 'Treatment 2b1b' (N=3.125) respectively. The 'Treatment 2a2' and 'Treatment 2b2' groups are further divided into 'Treatment 2a2a' (N=3.125) and 'Treatment 2a2b' (N=3.125), and 'Treatment 2b2a' (N=3.125) and 'Treatment 2b2b' (N=3.125) respectively. The 'Treatment 1a1a' and 'Treatment 1b1a' groups are further divided into 'Treatment 1a1a1' (N=1.5625) and 'Treatment 1a1a2' (N=1.5625), and 'Treatment 1b1a1' (N=1.5625) and 'Treatment 1b1a2' (N=1.5625) respectively. The 'Treatment 1a1b' and 'Treatment 1b1b' groups are further divided into 'Treatment 1a1b1' (N=1.5625) and 'Treatment 1a1b2' (N=1.5625), and 'Treatment 1b1b1' (N=1.5625) and 'Treatment 1b1b2' (N=1.5625) respectively. The 'Treatment 1a2a' and 'Treatment 1b2a' groups are further divided into 'Treatment 1a2a1' (N=1.5625) and 'Treatment 1a2a2' (N=1.5625), and 'Treatment 1b2a1' (N=1.5625) and 'Treatment 1b2a2' (N=1.5625) respectively. The 'Treatment 1a2b' and 'Treatment 1b2b' groups are further divided into 'Treatment 1a2b1' (N=1.5625) and 'Treatment 1a2b2' (N=1.5625), and 'Treatment 1b2b1' (N=1.5625) and 'Treatment 1b2b2' (N=1.5625) respectively. The 'Treatment 2a1a' and 'Treatment 2b1a' groups are further divided into 'Treatment 2a1a1' (N=1.5625) and 'Treatment 2a1a2' (N=1.5625), and 'Treatment 2b1a1' (N=1.5625) and 'Treatment 2b1a2' (N=1.5625) respectively. The 'Treatment 2a1b' and 'Treatment 2b1b' groups are further divided into 'Treatment 2a1b1' (N=1.5625) and 'Treatment 2a1b2' (N=1.5625), and 'Treatment 2b1b1' (N=1.5625) and 'Treatment 2b1b2' (N=1.5625) respectively. The 'Treatment 2a2a' and 'Treatment 2b2a' groups are further divided into 'Treatment 2a2a1' (N=1.5625) and 'Treatment 2a2a2' (N=1.5625), and 'Treatment 2b2a1' (N=1.5625) and 'Treatment 2b2a2' (N=1.5625) respectively. The 'Treatment 2a2b' and 'Treatment 2b2b' groups are further divided into 'Treatment 2a2b1' (N=1.5625) and 'Treatment 2a2b2' (N=1.5625), and 'Treatment 2b2b1' (N=1.5625) and 'Treatment 2b2b2' (N=1.5625) respectively.

<400> 1157																	
Met	Thr	Ala	Pro	Val	Pro	Ala	Pro	Arg	Ile	Leu	Leu	Pro	Leu	Leu	Leu		
1				5					10						15		
Leu	Leu	Leu	Leu	Thr	Pro	Pro	Pro	Gly	Ala	Arg	Gly	Glu	Val	Cys	Met		
			20					25					30				
Ala	Ser	Arg	Gly	Leu	Ser	Leu	Phe	Pro	Glu	Ser	Cys	Pro	Asp	Phe	Cys		
		35					40					45					
Cys	Gly	Thr	Cys	Asp	Asp	Gln	Tyr	Cys	Cys	Ser	Asp	Val	Leu	Lys	Lys		
	50					55					60						
Phe	Val	Trp	Ser	Glu	Glu	Arg	Cys	Ala	Val	Pro	Glu	Ala	Ser	Val	Pro		
65					70					75					80		
Ala	Ser	Val	Glu	Pro	Val	Glu	Gln	Leu	Gly	Ser	Ala	Leu	Arg	Phe	Arg		
				85					90					95			
Pro	Gly	Tyr	Asn	Asp	Pro	Met	Ser	Gly	Phe	Gly	Ala	Thr	Leu	Ala	Val		
			100					105					110				
Gly	Leu	Thr	Ile	Phe	Val	Leu	Ser	Val	Val	Thr	Ile	Ile	Ile	Cys	Phe		
		115					120					125					
Thr	Cys	Ser	Cys	Cys	Cys	Leu	Tyr	Lys	Thr	Cys	Arg	Arg	Pro	Arg	Pro		
	130					135					140						
Val	Val	Thr	Thr	Thr	Thr	Ser	Thr	Thr	Val	Val	His	Ala	Pro	Tyr	Pro		
145					150					155					160		
Gln	Pro	Pro	Ser	Val	Pro	Pro	Ser	Tyr	Pro	Gly	Pro	Ser	Tyr	Gln	Gly		
				165					170					175			
Tyr	His	Thr	Met	Pro	Pro	Gln	Pro	Gly	Met	Pro	Ala	Ala	Pro	Tyr	Pro		

180	185	190
Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala		
195	200	205
Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser		
210	215	220
Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu		
225	230	235
		240

<210> 1158
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 1158

Met Thr Ala Pro Val Pro Ala Pro Arg Ile Leu Leu Pro Leu Leu Leu		
1	5	10
		15
Leu Leu Leu Leu Thr Pro Pro Pro Gly Ala Arg Gly Glu Val Cys Met		
	20	25
		30
Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe Cys		
	35	40
		45
Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys Lys		
	50	55
		60
Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val Pro		
	65	70
		75
Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe Arg		
	85	90
		95
Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala Val		
	100	105
		110
Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys Phe		
	115	120
		125
Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg Pro		
	130	135
		140
Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr Pro		
	145	150
		155
Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln Gly		
	165	170
		175
Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr Pro		
	180	185
		190
Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala		
	195	200
		205

50 55 60
 Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr
 65 70 75 80
 Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro
 85 90 95
 Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser
 100 105 110
 Leu Leu Asn Trp
 115

<210> 1161
 <211> 426
 <212> PRT
 <213> Homo sapiens

<400> 1161
 Val Val Pro Phe Ser Gly Met Leu Pro Pro Gly Ala Glu Lys Ala Val
 1 5 10 15
 Ala Ser Phe Val Thr Gln Leu Ala Ala Ala Glu Ala Leu Gln Lys Ala
 20 25 30
 Pro Asp Val Thr Thr Leu Pro Arg Asn Val Met Phe Val Phe Phe Gln
 35 40 45
 Gly Glu Thr Phe Asp Tyr Ile Gly Ser Ser Arg Met Val Tyr Asp Met
 50 55 60
 Glu Lys Gly Lys Phe Pro Val Gln Leu Glu Asn Val Asp Ser Phe Val
 65 70 75 80
 Glu Leu Gly Gln Val Ala Leu Arg Thr Ser Leu Glu Leu Trp Met His
 85 90 95
 Thr Asp Pro Val Ser Gln Lys Asn Glu Ser Val Arg Asn Gln Val Glu
 100 105 110
 Asp Leu Leu Ala Thr Leu Glu Lys Ser Gly Ala Gly Val Pro Ala Val
 115 120 125
 Ile Leu Arg Arg Pro Asn Gln Ser Gln Pro Leu Pro Pro Ser Ser Leu
 130 135 140
 Gln Arg Phe Leu Arg Ala Arg Asn Ile Ser Gly Val Val Leu Ala Asp
 145 150 155 160
 His Ser Gly Ala Phe His Asn Lys Tyr Tyr Gln Ser Ile Tyr Asp Thr
 165 170 175
 Ala Glu Asn Ile Asn Val Ser Tyr Pro Glu Trp Leu Ser Pro Glu Glu
 180 185 190
 Asp Leu Asn Phe Val Thr Asp Thr Ala Lys Ala Leu Ala Asp Val Ala
 195 200 205

Pro	Cys	Val	Arg	Leu	Leu	Asn	Ala	Thr	His	Gln	Ile	Gly	Cys	Gln	Ser
50						55					60				
Ser	Ile	Ser	Gly	Asp	Thr	Gly	Val	Ile	His	Val	Val	Glu	Lys	Glu	Glu
65					70					75					80
Asp	Leu	Gln	Trp	Val	Leu	Thr	Asp	Gly	Pro	Asn	Pro	Pro	Tyr	Met	Val
				85					90					95	
Leu	Leu	Glu	Ser	Lys	His	Phe	Thr	Arg	Asp	Leu	Met	Glu	Lys	Leu	Lys
			100					105					110		
Gly	Arg	Thr	Ser	Arg	Ile	Ala	Gly	Leu	Ala	Val	Ser	Leu	Thr	Lys	Pro
		115					120					125			
Ser	Pro	Ala	Ser	Gly	Phe	Ser	Pro	Ser	Val	Gln	Cys	Pro	Asn	Asp	Gly
	130					135					140				
Phe	Gly	Val	Tyr	Ser	Asn	Ser	Tyr	Gly	Pro	Glu	Phe	Ala	His	Cys	Arg
145					150					155					160
Glu	Ile	Gln	Trp	Asn	Ser	Leu	Gly	Asn	Gly	Leu	Ala	Tyr	Glu	Asp	Phe
				165					170					175	
Ser	Phe	Pro	Ile	Phe	Leu	Leu	Glu	Asp	Glu	Asn	Glu	Thr	Lys	Val	Ile
			180					185					190		
Lys	Gln	Cys	Tyr	Gln	Asp	His	Asn	Leu	Ser	Gln	Asn	Gly	Ser	Ala	Pro
		195					200					205			
Thr	Phe	Pro	Leu	Cys	Ala	Met	Gln	Leu	Phe	Ser	His	Met	His	Ala	Val
	210					215					220				
Ile	Ser	Thr	Ala	Thr	Cys	Met	Arg	Arg	Ser	Ser	Ile	Gln	Ser	Thr	Phe
225					230					235					240
Ser	Ile	Asn	Pro	Glu	Ile	Val	Cys	Asp	Pro	Leu	Ser	Asp	Tyr	Asn	Val
				245					250					255	
Trp	Ser	Met	Leu	Lys	Pro	Ile	Asn	Thr	Thr	Gly	Thr	Leu	Lys	Pro	Asp
			260					265					270		
Asp	Arg	Val	Val	Val	Ala	Ala	Thr	Arg	Leu	Asp	Ser	Arg	Ser	Phe	Phe
		275					280					285			
Trp	Asn	Val	Ala	Pro	Gly	Ala	Glu	Ser	Ala	Val	Ala	Ser	Phe	Val	Thr
	290					295					300				
Gln	Leu	Ala	Ala	Ala	Glu	Ala	Leu	Gln	Lys	Ala	Pro	Asp	Val	Thr	Thr
305					310					315					320
Leu	Pro	Arg	Asn	Val	Met	Phe	Val	Phe	Phe	Gln	Gly	Glu	Thr	Phe	Asp
				325					330					335	
Tyr	Ile	Gly	Ser	Ser	Arg	Met	Val	Tyr	Asp	Met	Glu	Lys	Gly	Lys	Phe
			340					345					350		
Pro	Val	Gln	Leu	Glu	Asn	Val	Asp	Ser	Phe	Val	Glu	Leu	Gly	Gln	Val
		355					360					365			

Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala
 65 70 75 80
 Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys
 85 90 95
 Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro
 100 105 110
 Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly
 115 120 125
 Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn
 130 135 140
 Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu
 145 150 155 160
 Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp
 165 170 175
 Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser
 180 185 190
 Ala Gly Arg Trp Lys Ser Arg Tyr Cys Lys Ser Cys Ser Gly Leu Leu
 195 200 205
 Pro Val Ser Ser Pro Glu Ala Lys Glu Thr His Arg Phe Gly Cys Arg
 210 215 220
 Tyr Val Ser Gln Phe Thr
 225 230

 <210> 1165
 <211> 293
 <212> PRT
 <213> Homo sapiens

 <400> 1165
 Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu
 1 5 10 15
 Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr
 20 25 30
 Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val
 35 40 45
 Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg
 50 55 60
 Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala
 65 70 75 80
 Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys
 85 90 95
 Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro
 635

100	105	110
Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly 115 120 125		
Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn 130 135 140		
Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu 145 150 155 160		
Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp 165 170 175		
Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser 180 185 190		
Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala Gln Asp Phe Cys 195 200 205		
Gln Leu Val Ala Gln Lys Gln Lys Arg Pro Thr Asp Leu Asp Val Asp 210 215 220		
Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro Asp Pro Asp Leu 225 230 235 240		
Val Leu Lys Phe Gly Pro Val Asp Ser Thr Leu Gly Phe Leu Pro Trp 245 250 255		
His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser His Leu Asn Ile 260 265 270		
Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr Ala Ala Cys Glu 275 280 285		
Gln Arg Leu Gly Lys 290		

- <210> 1166
 <211> 173
 <212> PRT
 <213> Homo sapiens
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 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
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 <222> (160)
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166
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 1 5 10 15
 Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
 20 25 30
 Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
 35 40 45
 Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
 50 55 60
 Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val
 65 70 75 80
 Leu Val Asn Thr Xaa Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
 85 90 95
 Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly
 100 105 110
 Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Xaa
 115 120 125
 Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro
 130 135 140
 Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa
 145 150 155 160
 Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met
 165 170

<210> 1167
 <211> 173
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1167
 Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
 1 5 10 15

 Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
 20 25 30

 Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
 35 40 45

 Cys Gly Thr Glu Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
 50 55 60

 Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val
 65 70 75 80

 Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
 85 90 95

 Gly Leu Met Ala Val Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly
 100 105 110

 Glu Ile Leu Pro Gln Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly
 115 120 125

 Ala Asn Thr Ile Leu Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro
 130 135 140

 Leu Xaa Phe Pro Ile Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Xaa
 145 150 155 160

 Ile Arg Thr Val Tyr Asn Arg Xaa Lys Leu Met Xaa Met
 165 170

<210> 1168
 <211> 314
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Glu	Lys	Ala	Ala	Gly	Ala	Gly	Lys	Ser	His	Leu	Ala	Ile	Val	Gln	Lys		
1				5					10					15			
Val	Asn	Asn	Glu	Gly	Glu	Gly	Asp	Pro	Phe	Tyr	Glu	Val	Leu	Gly	Leu		
			20				25						30				
Val	Thr	Leu	Glu	Asp	Val	Ile	Glu	Glu	Ile	Ile	Lys	Ser	Glu	Ile	Leu		
		35				40					45						
Asp	Glu	Ser	Asp	Met	Tyr	Thr	Asp	Asn	Arg	Ser	Arg	Lys	Arg	Val	Ser		
	50					55					60						
Glu	Lys	Asn	Lys	Arg	Asp	Phe	Ser	Ala	Phe	Lys	Asp	Ala	Asp	Asn	Glu		
65					70					75					80		
Leu	Lys	Val	Lys	Ile	Ser	Pro	Gln	Leu	Leu	Leu	Ala	Xaa	His	Arg	Phe		
				85				90						95			
Leu	Ala	Thr	Glu	Val	Ser	Gln	Phe	Ser	Pro	Ser	Leu	Ile	Ser	Glu	Lys		
			100					105					110				
Ile	Leu	Leu	Arg	Leu	Leu	Lys	Tyr	Pro	Asp	Val	Ile	Gln	Glu	Leu	Lys		
	115						120					125					
Phe	Asp	Glu	His	Asn	Lys	Tyr	Tyr	Ala	Arg	His	Tyr	Leu	Tyr	Thr	Arg		
	130					135					140						
Asn	Lys	Pro	Ala	Asp	Tyr	Phe	Ile	Leu	Ile	Leu	Gln	Gly	Lys	Val	Glu		
145					150					155					160		
Val	Glu	Ala	Gly	Lys	Glu	Asn	Met	Lys	Phe	Glu	Thr	Gly	Ala	Phe	Ser		
				165					170					175			
Tyr	Tyr	Gly	Thr	Met	Ala	Leu	Thr	Ser	Val	Pro	Ser	Asp	Arg	Ser	Pro		
			180					185					190				
Ala	His	Pro	Thr	Pro	Leu	Ser	Arg	Ser	Ala	Ser	Leu	Ser	Tyr	Pro	Asp		
		195					200					205					
Arg	Thr	Asp	Val	Ser	Thr	Ala	Ala	Thr	Leu	Ala	Gly	Ser	Ser	Asn	Gln		
	210					215					220						
Phe	Gly	Ser	Ser	Val	Leu	Gly	Gln	Tyr	Ile	Ser	Asp	Phe	Ser	Val	Arg		
225					230					235					240		
Ala	Leu	Val	Asp	Leu	Gln	Tyr	Ile	Lys	Ile	Thr	Arg	Gln	Gln	Tyr	Gln		
				245				250						255			
Asn	Gly	Leu	Leu	Ala	Ser	Arg	Met	Glu	Asn	Ser	Pro	Gln	Phe	Pro	Ile		
		260						265					270				
Asp	Gly	Cys	Thr	Thr	His	Met	Glu	Asn	Leu	Ala	Glu	Lys	Ser	Glu	Leu		
		275					280					285					
Pro	Val	Val	Asp	Glu	Thr	Thr	Thr	Leu	Leu	Asn	Glu	Arg	Asn	Ser	Leu		
		290				295					300						

FOR "44" 54222222

260										265										270																											
Phe	Tyr	Asn	His	Pro	Val	His	Phe	Val	Phe	His	Asp	Thr	Lys	Leu	Asp	Phe	Val	Phe	His	Asp	Thr	Lys	Leu	Asp	Phe	Val	Phe	His	Asp	Thr	Lys	Leu	Asp														
275										280										285																											
Ala	Met	Leu	Glu	Glu	Phe	Lys	Lys	Gly	Lys	Ser	His	Leu	Ala	Ile	Val	Ala	Met	Leu	Glu	Glu	Phe	Lys	Lys	Gly	Lys	Ser	His	Leu	Ala	Ile	Val	Ala	Met	Leu	Glu	Glu	Phe	Lys	Lys	Gly	Lys	Ser	His	Leu	Ala	Ile	Val
290										295										300																											
Gln	Lys	Val	Asn	Asn	Glu	Gly	Glu	Gly	Asp	Pro	Phe	Tyr	Glu	Val	Leu	Gln	Lys	Val	Asn	Asn	Glu	Gly	Glu	Gly	Asp	Pro	Phe	Tyr	Glu	Val	Leu	Gln	Lys	Val	Asn	Asn	Glu	Gly	Glu	Gly	Asp	Pro	Phe	Tyr	Glu	Val	Leu
305										310										315										320																	
Gly	Leu	Val	Thr	Leu	Glu	Asp	Val	Ile	Glu	Glu	Ile	Ile	Lys	Ser	Glu	Gly	Leu	Val	Thr	Leu	Glu	Asp	Val	Ile	Glu	Glu	Ile	Ile	Lys	Ser	Glu	Gly	Leu	Val	Thr	Leu	Glu	Asp	Val	Ile	Glu	Glu	Ile	Ile	Lys	Ser	Glu
325										330										335																											
Ile	Leu	Asp	Glu	Ser	Asp	Met	Tyr	Thr	Asp	Asn	Arg	Ser	Arg	Lys	Arg	Ile	Leu	Asp	Glu	Ser	Asp	Met	Tyr	Thr	Asp	Asn	Arg	Ser	Arg	Lys	Arg	Ile	Leu	Asp	Glu	Ser	Asp	Met	Tyr	Thr	Asp	Asn	Arg	Ser	Arg	Lys	Arg
340										345										350																											
Val	Ser	Glu	Lys	Asn	Lys	Arg	Asp	Phe	Ser	Ala	Phe	Lys	Asp	Ala	Asp	Val	Ser	Glu	Lys	Asn	Lys	Arg	Asp	Phe	Ser	Ala	Phe	Lys	Asp	Ala	Asp	Val	Ser	Glu	Lys	Asn	Lys	Arg	Asp	Phe	Ser	Ala	Phe	Lys	Asp	Ala	Asp
355										360										365																											
Asn	Glu	Leu	Lys	Val	Lys	Ile	Ser	Pro	Gln	Leu	Leu	Leu	Ala	Ala	His	Asn	Glu	Leu	Lys	Val	Lys	Ile	Ser	Pro	Gln	Leu	Leu	Leu	Ala	Ala	His	Asn	Glu	Leu	Lys	Val	Lys	Ile	Ser	Pro	Gln	Leu	Leu	Leu	Ala	Ala	His
370										375										380																											
Arg	Phe	Leu	Ala	Thr	Glu	Val	Ser	Gln	Phe	Ser	Pro	Ser	Leu	Ile	Ser	Arg	Phe	Leu	Ala	Thr	Glu	Val	Ser	Gln	Phe	Ser	Pro	Ser	Leu	Ile	Ser	Arg	Phe	Leu	Ala	Thr	Glu	Val	Ser	Gln	Phe	Ser	Pro	Ser	Leu	Ile	Ser
385										390										395										400																	
Glu	Lys	Ile	Leu	Leu	Arg	Leu	Leu	Lys	Tyr	Pro	Asp	Val	Ile	Gln	Glu	Glu	Lys	Ile	Leu	Leu	Arg	Leu	Leu	Lys	Tyr	Pro	Asp	Val	Ile	Gln	Glu	Glu	Lys	Ile	Leu	Leu	Arg	Leu	Leu	Lys	Tyr	Pro	Asp	Val	Ile	Gln	Glu
405										410										415																											
Leu	Lys	Phe	Asp	Glu	His	Asn	Lys	Tyr	Tyr	Ala	Arg	His	Tyr	Leu	Tyr	Leu	Lys	Phe	Asp	Glu	His	Asn	Lys	Tyr	Tyr	Ala	Arg	His	Tyr	Leu	Tyr	Leu	Lys	Phe	Asp	Glu	His	Asn	Lys	Tyr	Tyr	Ala	Arg	His	Tyr	Leu	Tyr
420										425										430																											
Thr	Arg	Asn	Lys	Pro	Ala	Asp	Tyr	Phe	Ile	Leu	Ile	Leu	Gln	Gly	Lys	Thr	Arg	Asn	Lys	Pro	Ala	Asp	Tyr	Phe	Ile	Leu	Ile	Leu	Gln	Gly	Lys	Thr	Arg	Asn	Lys	Pro	Ala	Asp	Tyr	Phe	Ile	Leu	Ile	Leu	Gln	Gly	Lys
435										440										445																											
Val	Glu	Val	Glu	Ala	Gly	Lys	Glu	Asn	Met	Lys	Phe	Glu	Thr	Gly	Ala	Val	Glu	Val	Glu	Ala	Gly	Lys	Glu	Asn	Met	Lys	Phe	Glu	Thr	Gly	Ala	Val	Glu	Val	Glu	Ala	Gly	Lys	Glu	Asn	Met	Lys	Phe	Glu	Thr	Gly	Ala
450										455										460																											
Phe	Ser	Tyr	Tyr	Gly	Thr	Met	Ala	Leu	Thr	Ser	Val	Pro	Ser	Asp	Arg	Phe	Ser	Tyr	Tyr	Gly	Thr	Met	Ala	Leu	Thr	Ser	Val	Pro	Ser	Asp	Arg	Phe	Ser	Tyr	Tyr	Gly	Thr	Met	Ala	Leu	Thr	Ser	Val	Pro	Ser	Asp	Arg
465										470										475										480																	
Ser	Pro	Ala	His	Pro	Thr	Pro	Leu	Ser	Arg	Ser	Ala	Ser	Leu	Ser	Tyr	Ser	Pro	Ala	His	Pro	Thr	Pro	Leu	Ser	Arg	Ser	Ala	Ser	Leu	Ser	Tyr	Ser	Pro	Ala	His	Pro	Thr	Pro	Leu	Ser	Arg	Ser	Ala	Ser	Leu	Ser	Tyr
485										490										495																											
Pro	Asp	Arg	Thr	Asp	Val	Ser	Thr	Ala	Ala	Thr	Leu	Ala	Gly	Ser	Ser	Pro	Asp	Arg	Thr	Asp	Val	Ser	Thr	Ala	Ala	Thr	Leu	Ala	Gly	Ser	Ser	Pro	Asp	Arg	Thr	Asp	Val	Ser	Thr	Ala	Ala	Thr	Leu	Ala	Gly	Ser	Ser
500										505										510																											
Asn	Gln	Phe	Gly	Ser	Ser	Val	Leu	Gly	Gln	Tyr	Ile	Ser	Asp	Phe	Ser	Asn	Gln	Phe	Gly	Ser	Ser	Val	Leu	Gly	Gln	Tyr	Ile	Ser	Asp	Phe	Ser	Asn	Gln	Phe	Gly	Ser	Ser	Val	Leu	Gly	Gln	Tyr	Ile	Ser	Asp	Phe	Ser
515										520										525																											
Val	Arg	Ala	Leu	Val	Asp	Leu	Gln	Tyr	Ile	Lys	Ile	Thr	Arg	Gln	Gln	Val	Arg	Ala	Leu	Val	Asp	Leu	Gln	Tyr	Ile	Lys	Ile	Thr	Arg	Gln	Gln	Val	Arg	Ala	Leu	Val	Asp	Leu	Gln	Tyr	Ile	Lys	Ile	Thr	Arg	Gln	Gln
530										535										540																											
Tyr	Gln	Asn	Gly	Leu	Leu	Ala	Ser	Arg	Met	Glu	Asn	Ser	Pro	Gln	Phe	Tyr	Gln	Asn	Gly	Leu	Leu	Ala	Ser	Arg	Met	Glu	Asn	Ser	Pro	Gln	Phe	Tyr	Gln	Asn	Gly	Leu	Leu	Ala	Ser	Arg	Met	Glu	Asn	Ser	Pro	Gln	Phe
545										550										555										560																	
Pro	Ile	Asp	Gly	Cys	Thr	Thr	His	Met	Glu	Asn	Leu	Ala	Glu	Lys	Ser	Pro	Ile	Asp	Gly	Cys	Thr	Thr	His	Met	Glu	Asn	Leu	Ala	Glu	Lys	Ser	Pro	Ile	Asp	Gly	Cys	Thr	Thr	His	Met	Glu	Asn	Leu	Ala	Glu	Lys	Ser
565										570										575																											
Glu	Leu	Pro	Val	Val	Asp	Glu	Thr	Thr	Thr	Leu	Leu	Asn	Glu	Arg	Asn	Glu	Leu	Pro	Val	Val	Asp	Glu	Thr	Thr	Thr	Leu	Leu	Asn	Glu	Arg	Asn	Glu	Leu	Pro	Val	Val	Asp	Glu	Thr	Thr	Thr	Leu	Leu	Asn	Glu	Arg	Asn

Ser Leu Leu His Lys Ala Ser His Glu Asn Ala Ile
595 600

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<210> 1170
<211> 189
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (169)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (172)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1170
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu
  1             5             10             15
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Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
85 90 95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
100 105 110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val
115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp
130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser
145 150 155 160

Val Val Thr His Pro Met Ala Pro Xaa Ser Pro Xaa Gly Phe Pro Leu
165 170 175

Parameter	1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217		2217-2218		2218-2219		2219-2220		2220-2221		2221-2222		2222-2223		2	
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Pro Trp Ser Xaa Ala Glu Ile Leu Ala Thr Ile Gln Phe
180 185

<210> 1171
<211> 117
<212> PRT
<213> Homo sapiens

<400> 1171
Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Met Ala
1 5 10 15
Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala Gly Thr
20 25 30
Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly
35 40 45
Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Leu Ala Thr Met
50 55 60
Pro Val Leu Thr Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly
65 70 75 80
Thr Cys Arg Leu Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu
85 90 95
Thr Leu Leu Ser Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala
100 105 110
Ala Pro Pro Ser Leu
115

<210> 1172
<211> 241
<212> PRT
<213> Homo sapiens

<400> 1172
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu
1 5 10 15
Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30
Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
35 40 45
Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
50 55 60
Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65 70 75 80
Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly

95

Leu

Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly
65 70 75 80

The figure consists of ten small histograms arranged horizontally, labeled \$k=1\$ through \$k=10\$. Each histogram shows the frequency of the number of non-zero elements in the vector \$\mathbf{x}_k^T \mathbf{A} \mathbf{x}_k\$. The x-axis for each plot ranges from approximately 80 to 180, and the y-axis represents frequency, ranging from 0 to 10. The distributions are roughly bell-shaped and centered around 120-130 non-zero elements.

95

Glu Gly Lys Thr Pro Lys Val Glu Leu
260 265

<213> Homo sapiens

Ala Ala Ser Pro Cys Ile Gln His Gly Ser Ser Pro Arg Ala Gly Thr
85 90 95

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' is a 2x2 grid of letters (A, B, C, D). The 'Response' is a 2x2 grid of letters (A, B, C, D). The 'Reaction time' is a 2x2 grid of letters (A, B, C, D). The 'Stimulus' and 'Response' are connected by a double-headed arrow. The 'Reaction time' is connected to the 'Response' by a double-headed arrow. The 'Stimulus' and 'Reaction time' are connected by a double-headed arrow.

Gly Thr Arg Ile Ala Ala Ala Pro Thr Leu Thr Pro Ala Gln Leu Pro
 100 105 110
 Thr Ala Thr Thr Gly Glu Ser Pro Thr Cys Leu Gly His Pro Val Leu
 115 120 125
 Thr Pro Arg Ala Gly Ser Arg Thr Thr Cys Pro Lys Cys Ser Thr Pro
 130 135 140
 Ala Thr Leu Thr Leu Ala Val Ala Pro Leu Trp Pro Pro Ala
 145 150 155

<210> 1176
 <211> 291
 <212> PRT
 <213> Homo sapiens

<400> 1176
 Met Ser Gln Glu Gly Val Glu Leu Glu Lys Ser Val Arg Arg Leu Arg
 1 5 10 15
 Glu Lys Phe His Gly Lys Val Ser Ser Lys Lys Ala Gly Ala Leu Met
 20 25 30
 Arg Lys Phe Gly Ser Asp His Thr Gly Val Gly Arg Ser Ile Val Tyr
 35 40 45
 Gly Val Lys Gln Lys Asp Gly Gln Glu Leu Ser Asn Asp Leu Asp Ala
 50 55 60
 Gln Asp Pro Pro Glu Asp Met Lys Gln Asp Arg Asp Ile Gln Ala Val
 65 70 75 80
 Ala Thr Ser Leu Leu Pro Leu Thr Glu Ala Asn Leu Arg Met Phe Gln
 85 90 95
 Arg Ala Gln Asp Asp Leu Ile Pro Ala Val Asp Arg Gln Phe Ala Cys
 100 105 110
 Ser Ser Cys Asp His Val Trp Trp Arg Arg Val Pro Gln Arg Lys Glu
 115 120 125
 Val Ser Arg Cys Arg Lys Cys Arg Lys Arg Tyr Glu Pro Val Pro Ala
 130 135 140
 Asp Lys Met Trp Gly Leu Ala Glu Phe His Cys Pro Lys Cys Arg His
 145 150 155 160
 Asn Phe Arg Gly Trp Ala Gln Met Gly Ser Pro Ser Pro Cys Tyr Gly
 165 170 175
 Cys Gly Phe Pro Val Tyr Pro Thr Arg Ile Leu Pro Pro Arg Trp Asp
 180 185 190
 Arg Asp Pro Asp Arg Arg Ser Thr His Thr His Ser Cys Ser Ala Ala
 195 200 205

Asp Cys Tyr Asn Arg Arg Glu Pro His Val Pro Gly Thr Ser Cys Ala
 210 215 220
 His Pro Lys Ser Arg Lys Gln Asn His Leu Pro Lys Val Leu His Pro
 225 230 235 240
 Ser Asn Pro His Ile Ser Ser Gly Ser Thr Val Ala Thr Cys Leu Ser
 245 250 255
 Gln Gly Gly Leu Leu Glu Asp Leu Asp Asn Leu Ile Leu Glu Asp Leu
 260 265 270
 Lys Glu Glu Glu Glu Glu Glu Glu Val Glu Asp Glu Glu Gly Gly
 275 280 285
 Pro Arg Glu
 290

<210> 1177
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1177
 Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys
 1 5 10 15
 Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr
 20 25 30
 Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr
 35 40 45
 Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln
 50 55 60
 Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser
 65 70 75 80
 Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr
 85 90 95
 Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys
 100 105 110
 Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu
 115 120 125

<210> 1178
 <211> 6
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178

Gly Thr Gln Xaa Ala Leu
1 5

<210> 1179

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1179

Met Arg Gly Thr Gln Leu Val Leu Leu Ala Leu Val Leu Ala Ala Cys
1 5 10 15

Gly Glu Leu Ala Pro Ala Leu Arg Cys Tyr Val Cys Pro Glu Pro Thr
20 25 30

Gly Val Ser Asp Cys Val Thr Ile Ala Thr Cys Thr Thr Asn Glu Thr
35 40 45

Met Cys Lys Thr Thr Leu Tyr Ser Arg Glu Ile Val Tyr Pro Phe Gln
50 55 60

Gly Asp Ser Thr Val Thr Lys Ser Cys Ala Ser Lys Cys Lys Pro Ser
65 70 75 80

Asp Val Asp Gly Ile Gly Gln Thr Leu Pro Val Ser Cys Cys Asn Thr
85 90 95

Glu Leu Cys Asn Val Asp Gly Ala Pro Ala Leu Asn Ser Leu His Cys
100 105 110

Gly Ala Leu Thr Leu Leu Pro Leu Leu Ser Leu Arg Leu
115 120 125

<210> 1180

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro
1 5 10 15

Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys

20

25

30

[illegible]

```
<210> 1181
<211> 92
<212> PRT
<213> Homo sapiens
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```

<400> 1181
Ser Gly Leu Ala Trp Ala Leu Leu Leu Ser Leu Pro Gly Gly Leu Arg
  1                      5                      10                      15

Ser Ser Ser Ala Arg Leu Pro Pro Glu Pro Phe His Gly Gln Gly Leu
                20                      25                      30

Ser Ser Val Gly Ala Ile Arg Arg Arg Val Cys Arg Ser Val Arg Leu
    35                      40                      45

Gly Asp Pro Trp Gly Met Glu Gly Thr Thr Arg Pro Phe Pro Ser Val
    50                      55                      60

Pro Cys Gln Ala Val Leu Thr Ala Ala Ser Ser Gln Gly Arg Lys Pro
    65                      70                      75                      80

Gly Gln Arg Gln Arg Leu Leu Val Pro Ser Ile Pro
                85                      90

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<210> 1182
<211> 139
<212> PRT
<213> Homo sapiens
```

<400> 1182
Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn
1 5 10 15

Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly
 20 25 30
 Trp Leu Ser Val Lys Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr
 35 40 45
 Leu Ser Arg Val Leu Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala
 50 55 60
 Arg Gln Pro Arg Ile Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu
 65 70 75 80
 Ile Arg Thr Ile Arg Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu
 85 90 95
 Glu Val Val Ser Glu Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu
 100 105 110
 Glu Tyr Leu Val Ile Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser
 115 120 125
 Leu Ala Thr Leu Ile Val Gly Asn Leu His Phe
 130 135

<210> 1183
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1183
 Met Pro Asp Val Gln Gly Pro Trp His Pro Ala His Pro Pro Ile Pro
 1 5 10 15
 Ser Ala Ala Leu Cys Leu Leu Trp Pro His Cys Leu Ala Ala Pro Lys
 20 25 30
 Tyr Ala Arg Pro Arg Cys Leu Leu Val Phe Val Leu Cys Asp Arg Ser
 35 40 45
 Ala Trp Asn Ile Leu Leu Tyr Ser Val Gly Ser Lys Val Ser Gly Leu
 50 55 60
 Cys Ser Asn Cys Ser Leu Val Pro Gly Val Val Ala His Thr Cys Asn
 65 70 75 80
 Pro Lys Val Pro Leu Gly Leu Gln Gly Cys Glu Leu Pro Cys Pro Ala
 85 90 95
 Glu His Leu Ile Phe Ser Lys Cys Leu Ser Ser Cys Ala Thr Trp Ala
 100 105 110
 His Cys Phe Leu Gly Leu Ser Cys Cys Trp Cys Leu His Pro His Pro
 115 120 125
 His Pro Ser Trp Pro Ala Pro Phe Leu Ser Arg Trp Ala His Val
 130 135 140


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<210> 1185
<211> 102
<212> PRT
<213> Homo sapiens
```

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<210> 1186
<211> 259
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 1186
Ala Gly Ala Trp Val Ser Leu Gly Pro Cys Leu Phe Pro Ala Pro Ala
  1                      5                      10                      15

Asp Ser Glu Gln Arg Pro Trp Val Arg Arg Val Gly Val Gly Pro Leu
      20                      25                      30

Pro Ala Glu Pro Gly Gln Gly Glu Leu Gln Glu Ser Pro Leu Cys Pro
    35                      40                      45

```


Cys Ser Trp Asn Val Pro Gln Arg Pro His Leu Lys Gly Xaa Cys Ala
50 55 60

Gly Gly Val Ala Gln Ser His Thr Ala Ser Thr Leu Ser Ser Gly Thr
65 70 75 80

Gly Asp Ser Gly Cys Ser Gly Lys Gly Leu Leu Asp Val Thr Tyr Asn
85 90 95

Ser Val Arg Leu Glu Thr Asp Ala Gly Gly Gly Arg Ala Gly Pro Pro
100 105 110

Gly Ile Thr Asp His Arg Lys Met Gly Gly Gly Ser Arg Gly Pro Ala
115 120 125

Pro Thr Pro Ser Cys Leu Thr Leu Leu Ser Cys Pro His Pro Cys Ala
130 135 140

Phe Val Pro Glu Thr Arg Val Ala Thr Gln Ala Gly Pro Gly Ser Ser
145 150 155 160

Leu Ile Leu Pro Leu Pro Ser Glu Pro Cys Ser Ser Leu Pro Ser Pro
165 170 175

Leu Pro Pro Leu Pro Arg Arg Val Thr Ser Asp Arg Ala Pro Leu Ala
180 185 190

Ile Gln Gly Gly Ser Arg Gly Leu Asp Arg Arg Ala Arg Arg Leu Pro
195 200 205

Ala Val Ala Gly Ala Ser Cys Pro Cys Arg Val Gly Glu Leu Ser Gly
210 215 220

Arg Glu Pro Tyr Leu Pro Ser Ala Lys Thr Val Lys Val Tyr Arg Leu
225 230 235 240

Phe Thr Asp Phe Tyr Leu Asn Cys Lys Ser Ala Asp Phe Val Asn Val
245 250 255

Leu Gly Val

<210> 1187
<211> 119
<212> PRT
<213> Homo sapiens

<400> 1187
Met Gly Gln Gly Ala Cys Gln Lys Tyr Val Cys Trp Phe Leu Asn Val
1 5 10 15

Val Cys Pro Cys Pro Pro Gly Ser Gly Arg Val His Val Ser Pro His
20 25 30

Thr Cys Ala Arg Glu Gly Ala Ser Trp Arg Gly Asp Ser Arg Ala Arg
35 40 45

Gly Leu His Leu Trp Leu Pro Leu Ala Ser Leu Gly Gly Pro Gly Leu
 50 55 60

Pro Gly Ser Gln Ala Leu Ser Cys Gly Thr Trp His Leu Ala Asp Gln
 65 70 75 80

Leu Ala Gly Arg Lys Ile Gly Gly His Arg Ala Gly Gly Gln Cys Pro
 85 90 95

Leu Pro Val Ser Ile Arg Ser Thr Cys His Cys Met Gln Pro Val Gly
 100 105 110

Thr Phe Leu Ala Val Arg Asn
 115

<210> 1188

<211> 177

<212> PRT

<213> Homo sapiens

<400> 1188

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1 5 10 15

Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
 20 25 30

Leu Leu Gly Glu Lys Thr Arg Gln Val Ser Leu Glu Val Ile Pro Asn
 35 40 45

Trp Leu Gly Pro Leu Gln Asn Leu Leu His Ile Arg Ala Val Gly Thr
 50 55 60

Asn Ser Thr Leu His Tyr Val Trp Ser Ser Leu Gly Pro Leu Ala Val
 65 70 75 80

Val Met Val Ala Thr Asn Thr Pro His Ser Thr Leu Ser Val Asn Trp
 85 90 95

Ser Leu Leu Leu Ser Pro Glu Pro Asp Gly Gly Leu Met Val Leu Pro
 100 105 110

Lys Asp Ser Ile Gln Phe Ser Ser Ala Leu Val Phe Thr Arg Leu Leu
 115 120 125

Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala Lys Pro Leu Gly
 130 135 140

Arg Pro Tyr Pro Pro Tyr Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile
 145 150 155 160

Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr Phe Gln Gly Thr
 165 170 175

Pro

[illegible]

Arg Pro Thr Arg Pro Leu Asn Cys Gly Arg Met Arg Gly Ser Val Glu
1 5 10 15

Cys Thr Trp Gly Trp Gly His Cys Ala Pro Ser Pro Leu Leu Leu Trp
20 25 30

Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly Leu Leu Gly Glu Lys Thr
35 40 45

Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn Val Ser Asp Thr Ala Ala
50 55 60

Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr Ser Leu Ala Asp Phe Ser
65 70 75 80

Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro Ala Thr Leu Ser Ala Thr
85 90 95

Phe Gln Gly His Pro Met Asn Asp Pro Thr Arg Thr Phe Ala Asn Gly
100 105 110

Ser Leu Ala Phe Arg Val Gln Ala Phe Ser Arg Ser Ser Arg Pro Ala
115 120 125

Gln Pro Pro Arg Leu Leu His Thr Ala Asp Thr Cys Gln Leu Glu Val
130 135 140

Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn Arg Ser Leu Phe Gly Leu
145 150 155 160

Glu Val Ala Thr Leu Gly Gln Gly Pro Asp Cys Pro Ser Met Gln Glu
165 170 175

Gln His Ser Ile Asp Asp Glu Tyr Ala Pro Ala Val Phe Gln Leu Asp
180 185 190

Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly Phe Ala Gln Trp Arg Pro
195 200 205

Val Ala Tyr Ser Gln Lys Pro Gly Gly Arg Glu Ser Ala Leu Pro Cys
210 215 220

Gln Ala Ser Pro Leu His Pro Ala Leu Ala Tyr Ser Leu Pro Gln Ser
225 230 235 240

Pro Ile Val Arg Ala Phe Phe Gly Ser Gln Asn Asn Phe Cys Ala Phe
245 250 255

Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro Gly Tyr Trp Asp Gln His
260 265 270

Tyr Leu Ser Trp Ser Met Leu Leu Gly Val Gly Phe Pro Pro Val Asp
275 280 285

Gly Leu Ser Pro Leu Val Leu Gly Ile Met Ala Val Ala Leu Gly Ala
290 295 300

Pro Gly Leu Met Leu Leu Gly Gly Gly Leu Val Leu Leu Leu His His
305 310 315 320

Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn
325 330

<210> 1190

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1190

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro
35 40 45

Gly Arg Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg
50 55 60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile
65 70 75 80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg
85 90 95

<210> 1191

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1191

Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
1 5 10 15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro
35 40 45

Arg Lys Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala
50 55 60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Asp Ile Glu Glu Gly Asp
65 70 75 80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile

95

Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu
225 230

<213> Homo sapiens

Arg Pro Val Thr Gln Glu Glu Asp Asp Asp Gln Arg
100 105

Met Arg Ala Leu Ser Gly Gly Glu Arg Ser Phe Ser Thr Val Cys Phe
1 5 10 15

Glu Phe Asp Val Tyr Met Asp Met Val Asn Arg Arg Ile Ala Met Asp
35 40 45

Leu Thr Pro Gln Ser Met Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg
65 70 75 80

Arg Pro Val Thr Gln Glu Glu Asp Asp Asp Gln Arg
100 105

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Leu Leu His Phe Asn Cys His Ser Gly Phe Leu Thr Gln Ser Pro
1 5 10 15

Ala Ala Ala Arg Leu Trp Cys Asp Cys Gln Arg Pro Ala Pro Arg Val
35 40 45

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<210> 1195
<211> 240
<212> PRT
<213> Homo sapiens

<400> 1195
Met Ser Arg Tyr Leu Leu Pro Leu Ser Ala Leu Gly Thr Val Ala Gly
 1          5          10          15
Ala Ala Val Leu Leu Lys Asp Tyr Val Thr Gly Gly Ala Cys Pro Ser
          20          25          30
Lys Ala Thr Ile Pro Gly Lys Thr Val Ile Val Thr Gly Ala Asn Thr
          35          40          45
Gly Ile Gly Lys Gln Thr Ala Leu Glu Leu Ala Arg Arg Gly Gly Asn
          50          55          60
Ile Ile Leu Ala Cys Arg Asp Met Glu Lys Cys Glu Ala Ala Ala Lys
 65          70          75          80
Asp Ile Arg Gly Glu Thr Leu Asn His His Val Asn Ala Arg His Leu
          85          90          95
Asp Leu Ala Ser Leu Lys Ser Ile Arg Glu Phe Ala Ala Lys Ile Ile
          100          105          110
Glu Glu Glu Glu Arg Val Asp Ile Leu Ile Asn Asn Ala Gly Val Met
          115          120          125
Arg Cys Pro His Trp Thr Thr Glu Asp Gly Phe Glu Met Gln Phe Gly
          130          135          140
Val Asn His Leu Gly His Phe Leu Leu Thr Asn Leu Leu Leu Asp Lys
          145          150          155          160
Leu Lys Ala Ser Ala Pro Ser Arg Ile Ile Asn Leu Ser Ser Leu Ala
          165          170          175

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Ser Gly Val Gly Ser Ser Asp Gly Asn Ser Glu Glu Ser Thr Leu Gly
 115 120 125

Lys Trp Arg Lys Asp Val Leu Ser Ile Ile Asp Asp Leu Xaa Asp Gly
 130 135 140

Pro Gln Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu Xaa
 145 150 155 160

Ala Xaa Asn Cys Thr Thr Arg Glu Gly Leu Ala Leu Ile Gly
 165 170

<210> 1197
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 1197
 Ile Leu Val Gly Ser Ser Leu Gly Gly Trp Leu Met Leu His Ala Ala
 1 5 10 15

Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala Thr Ala
 20 25 30

Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu Leu Lys
 35 40 45

Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys Tyr Ser
 50 55 60

Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu Ala Glu
 65 70 75 80

His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro Ile Arg
 85 90 95

Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr Ser Met
 100 105 110

Gln Val Ala Asp Arg Val Leu Ser Thr Asp Val Asp Val Ile Leu Arg
 115 120 125

Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln Leu Leu
 130 135 140

Val Tyr Thr Ile Asp Asp Leu Ile Asp Lys Leu Ser Thr Ile Val Asn
 145 150 155 160

<210> 1198
 <211> 306
 <212> PRT
 <213> Homo sapiens

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' box contains a diagram of a person in a boat. The 'Response' box contains a diagram of a person in a boat. The 'Reaction time' box contains a diagram of a person in a boat. The flow is indicated by arrows. The 'Stimulus' box is labeled 'Stimulus' and the 'Response' box is labeled 'Response'. The 'Reaction time' box is labeled 'Reaction time'.

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Case	Age	Sex	Duration of disease	Site of lesion	Pathological findings	Response to treatment
1	45	M	10 years	Right parietal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
2	52	F	5 years	Left frontal lobe	Acute inflammation with neutrophilic infiltrates	Complete remission
3	68	M	15 years	Right temporal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
4	72	F	8 years	Left parietal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
5	78	M	12 years	Right frontal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
6	82	F	18 years	Left temporal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
7	85	M	20 years	Right parietal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
8	88	F	22 years	Left frontal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
9	90	M	25 years	Right temporal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission
10	92	F	28 years	Left parietal lobe	Chronic inflammation with microglial nodules and perivascular cuffing	Partial remission

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<220>  
<221> SITE  
<222> (189)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

Leu Val Arg Pro Pro Gly Thr Met Ala Gln Ala Gln Tyr Cys Ser Val
20 25 30

Leu Val Asp Ile His Val Pro Glu Gly Gln Glu Val Thr Leu Gly Ala
50 55 60

Asn Val Thr Pro Asp Tyr Glu Glu Lys Ser Leu Leu Glu Ala Gln Leu
85 90 95

Ser Val Leu Asp Val Asn Asp Asn Ala Pro Glu Phe Pro Phe Lys Thr
115 120 125

Pro Glu Thr Gln Leu Gln Ala Glu Asp Arg Asp Lys Asp Asp Ile Leu
145 150 155 160

Leu Val Ser Val Asn Arg Pro Pro Glu Leu Asp Arg Xaa Leu Thr Ser
180 185 190

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Pro Gln Gly Gln Leu Gly Ala Arg Pro Gln Pro His Ala Arg Pro Gln
1 5 10 15

Leu Pro Arg Arg Cys Pro Glu Pro Pro Ala Ala Ala Arg Ala Gly Gly
35 40 45

Ser Pro Thr Ala Val Arg Ser Ile Leu Thr Lys Glu Arg Arg Pro Glu
50 55 60

Gly Gly Tyr Lys Ala Val Trp Phe Gly Glu Asp Ile Gly Thr Glu Ala
65 70 75 80

Asp Val Val Val Leu Asn Ala Pro Thr Leu Asp Val Asp Gly Ala Ser
85 90 95

Asp Ser Gly Ser Gly Asp Glu Gly Glu Gly Ala Gly Arg Gly Gly Gly
100 105 110

Pro Tyr Asp Ala Pro Gly Gly Asp Asp Ser Tyr Ile
115 120

<211> 447

<212> PRT

<213> Hom

<220>

<221> SITE

$\langle 222 \rangle$ (260)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1201

Phe Pro Ala Gly Ala Ala Ser Thr Val Leu Ala His Asn Lys Met Leu
1 5 10 15

Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys Ser Gln
20 25 30

Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg Ser Asp
35 40 45

Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile Ser Gln
50 55 60

Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Asp Asp Tyr
65 70 75 80

Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp Gln Ala Leu Asp Pro
85 90 95

Thr Phe Ser Asp Gly Tyr Val Cys Ile Gln Ala Gln Tyr His Gly Ala
245 250 255

Val Pro Thr Gly His Ile Leu Pro Ser Pro Leu Val Leu Arg Pro Gly
260 265 270

Pro Ile Tyr Ala Glu Asp Gly Asp Arg Gly Ile Asn Gln Pro Ile Ile
275 280 285

Tyr Ser Ile Phe Arg Gly Asn Val Asn Gly Thr Phe Ile Ile His Pro
290 295 300

Asp Ser Gly Asn Leu Thr Val Ala Arg Ser Val Pro Ser Pro Met Thr
305 310 315 320

Phe Leu Leu Leu Val Lys Gly Gln Gln Ala Asp Leu Ala Arg Tyr Ser
325 330 335

Val Thr Gln Val Thr Val Glu Ala Val Ala Ala Ala Gly Ser Pro Pro
340 345 350

Arg Phe Pro Gln Ser Leu Tyr Arg Gly Thr Val Ala Arg Gly Ala Gly
355 360 365

Ala Gly Val Val Val Lys Asp Ala Ala Ala Pro Ser Gln Pro Leu Arg
370 375 380

Ile Gln Ala Gln Asp Pro Glu Phe Ser Asp Leu Asn Ser Ala Ile Thr
385 390 395 400

Tyr Arg Ile Thr Asn His Ser His Phe Arg Met Glu Gly Glu Val Val
405 410 415

Leu Thr Thr Thr Thr Leu Ala Gln Ala Gly Ala Phe Tyr Ala Glu Val
420 425 430

Ala Ala Pro Arg Arg Thr Ser Ala Ser Arg Trp Trp Ile Trp Arg Pro
435 440 445

Trp Ala Gly Cys Trp Val Arg Cys Cys Cys Trp Leu Ser Leu Ala Ser
450 455 460

Pro Ser Leu Ser Thr Ser Thr Met Ala Pro Gly Ser Ser Ala Ala Leu
465 470 475 480

Ala Lys Leu Arg Ser Pro Ser Pro Lys Ala Leu Thr Thr Arg Arg Ser
485 490 495

Ser Leu Thr Thr Arg Pro Thr Gly Arg Pro Ser Pro Ala Pro Arg Thr
500 505 510

Thr Pro Ser Pro Arg Arg His Arg Cys Pro Gln Ser Pro His Pro Pro
515 520 525

Ala Leu Pro Pro Gln Ala Val Pro Leu Ser Pro Pro Gln Arg Pro Glu
530 535 540

Leu Ala Glu Ala Pro Arg Arg
545 550

<210> 1203
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1203
 Phe Cys Lys Gly Gln Ala Ala Leu Ala Leu Ala Ala Cys Gly Val Leu
 1 5 10 15
 Leu Xaa Ser Gly Gly Pro Ala Ala Ala Trp Glu Ala Asp Pro Ala Gly
 20 25 30
 Arg Cys Gly Arg Val Pro Thr Ala Arg Gly Arg Ser Trp Arg Lys Pro
 35 40 45
 Leu Cys Gly Ala Phe Gln Pro Gly Xaa Ser Trp Pro Glu Ala Pro Arg
 50 55 60
 Arg Cys Arg Thr Ser Pro Cys
 65 70

<210> 1204
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids.

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<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1204

Asn	Ser	Xaa	Xaa	Asp	Pro	Asp	Asn	Val	Leu	Trp	Pro	Gly	Arg	Trp	Thr
1				5					10					15	
Gln	Phe	Cys	Cys	Ile	Lys	Val	Lys	Xaa	Asp	Phe	Gln	Glu	Glu	Ala	Ser
		20						25					30		
Val	Gly	Val	Ser	Xaa	Gly	Gly	Tyr	Arg	Ile	Gly	Val	Asp	Glu	Asn	Gln
		35					40					45			
Xaa	Lys	Gly	Cys												
		50													

<210> 1205

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1205

Val	Phe	Cys	Lys	Gly	Gln	Ala	Ala	Leu	Ala	Leu	Ala	Ala	Cys	Gly	Val
1				5					10					15	
Leu	Leu	Gly	Ser	Gly	Gly	Pro	Ala	Ala	Ala	Trp	Glu	Ala	Asp	Pro	Arg
			20					25					30		
Gly	Gln	Val	Trp	Pro	Cys	Pro	Asp	Arg	Ala	Arg	Thr	Glu	Val	Gly	Gly
		35					40					45			
Ser	Pro	Cys	Ala	Val	Pro	Ser	Ser	Pro	Glu	Glu	Ala	Gly	Leu	Lys	Pro
		50				55					60				
Pro	Gly	Val	Ala	Glu	Ala	Ser	Pro	Cys	Gln	Arg	Pro	Lys	Pro	Arg	Leu
	65				70				75						80
Gly	Phe	Tyr	Arg	Cys	Ser	Phe	Pro	Ser	Thr	Trp	Ser	Pro	Ser	Thr	Pro
			85						90					95	
Ser	Ser	Pro	Asn	Ser	Gln	Pro	Pro	Phe	Phe	Phe	Phe	Leu	His	Ala	Ser
			100					105					110		
Lys	Val	Gln	Gly	Pro	Gln	Met	Tyr	Arg	Ser	Leu	Met	Tyr	His	Pro	Ala
		115					120					125			
Arg	Glu	Pro	Ala	Asp	Tyr	Gln	Ala	Lys	Lys						
		130					135								

<210> 1206

<211> 193

<212> PRT

<213> Homo sapiens

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<210> 1207
<211> 349
<212> PRT
<213> Homo sapiens
```

Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
1 5 10 15

Pro Arg Val Arg Asp Asp Thr Gly Pro Pro Met Asp Lys Ser Asp Leu
20 25 30

Gly Gln Lys Arg Thr Ser Gly Ala Val Cys His Gln Asp Pro Arg Thr
35 40 45

Cys Glu Glu Pro Ala Ser Ser Gly Ala His Ile Trp Pro Asp Asp Ile
50 55 60

Thr Lys Trp Pro Ile Cys Thr Glu Gln Ala Arg Ser Asn His Thr Gly
65 70 75 80

Phe Leu His Val Asp Cys Glu Ile Lys Gly Arg Pro Cys Cys Ile Gly
85 90 95

Thr Lys Gly Ser Cys Glu Ile Thr Thr Arg Glu Tyr Cys Glu Phe Met
100 105 110

His Gly Tyr Phe His Glu Glu Ala Thr Leu Cys Ser Gln Val His Cys
115 120 125

Leu Asp Lys Val Cys Gly Leu Leu Pro Phe Leu Asn Pro Glu Val Pro
130 135 140

Asp Gln Phe Tyr Arg Leu Trp Leu Ser Leu Phe Leu His Ala Gly Val
145 150 155 160

Val His Cys Leu Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp
165 170 175

Leu Glu Lys Leu Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu
180 185 190

Ser Gly Ile Thr Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg
195 200 205

Ala Glu Val Gly Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu
210 215 220

Phe Val Glu Leu Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys
225 230 235 240

Ala Phe Leu Asn Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly
245 250 255

[illegible]

Leu Leu Pro Trp Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser
 260 265 270
 Gly Leu Leu Leu Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr
 275 280 285
 Ser Asp Lys Tyr Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala
 290 295 300
 Phe Ala Gly Leu Phe Ala Ala Leu Val Leu Trp Leu Tyr Ile Tyr Pro
 305 310 315 320
 Ile Asn Trp Pro Trp Ile Glu His Leu Thr Cys Phe Pro Phe Thr Ser
 325 330 335
 Arg Phe Cys Glu Lys Tyr Glu Leu Asp Gln Val Leu His
 340 345

<210> 1208
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 1208
 Met Ala Gly Pro Thr Cys Arg Ser Leu Leu Leu Lys Cys Leu Ala
 1 5 10 15
 Glu Gly Arg Cys Leu Val Cys Pro Ser Pro Ser Val Val His Cys Leu
 20 25 30
 Val Ser Val Val Phe Gln Met Thr Ile Leu Arg Asp Leu Glu Lys Leu
 35 40 45
 Ala Gly Trp His Arg Ile Ala Ile Ile Phe Ile Leu Ser Gly Ile Thr
 50 55 60
 Gly Asn Leu Ala Ser Ala Ile Phe Leu Pro Tyr Arg Ala Glu Val Gly
 65 70 75 80
 Pro Ala Gly Ser Gln Phe Gly Leu Leu Ala Cys Leu Phe Val Glu Leu
 85 90 95
 Phe Gln Ser Trp Pro Leu Leu Glu Arg Pro Trp Lys Ala Phe Leu Asn
 100 105 110
 Leu Ser Ala Ile Val Leu Phe Leu Phe Ile Cys Gly Leu Leu Pro Trp
 115 120 125
 Ile Asp Asn Ile Ala His Ile Phe Gly Phe Leu Ser Gly Leu Leu Leu
 130 135 140
 Ala Phe Ala Phe Leu Pro Tyr Ile Thr Phe Gly Thr Ser Asp Lys Tyr
 145 150 155 160
 Arg Lys Arg Ala Leu Ile Leu Val Ser Leu Leu Ala Phe Ala Gly Leu
 165 170 175

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (194)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209
 Met Tyr Tyr Ile Ala His Leu Leu Lys Gly Ala Leu Leu Phe Ile Thr
 1 5 10 15

Ile Ala Leu Ile Gly Ser Gly Trp Ala Phe Ile Lys Tyr Val Leu Ser
 20 25 30

Asp Lys Glu Lys Lys Val Phe Gly Ile Val Ile Pro Met Gln Val Leu
 35 40 45

Ala Thr Trp Pro Thr Ser Ser Ser Ser Pro Ala Arg Lys Ala Pro Ala
 50 55 60

Thr Thr Cys Cys Gly Xaa Xaa Xaa Xaa Pro Xaa Gly Pro His Leu Leu

Lys	Thr	Leu	Phe	Ile	Phe	Pro	Gly	Leu	Leu	Pro	Glu	Ala	Pro	Ser	Lys
145					150					155					160
Pro	Gly	Leu	Pro	Lys	Pro	Gln	Ala	Thr	Val	Pro	Arg	Lys	Val	Asp	Gly
				165					170					175	
Gly	Gly	Thr	Ser	Ala	Ala	Ser	Lys	Pro	Lys	Ser	Thr	Pro	Ala	Val	Ile
			180					185					190		
Gln	Gly	Pro	Ser	Gly	Lys	Asp	Lys	Asp	Leu	Val	Leu	Gly	Leu	Ser	His
		195					200					205			
Leu	Asn	Asn	Ser	Tyr	Asn	Phe	Ser	Phe	His	Val	Val	Ile	Gly	Ser	Gln
	210					215					220				
Ala	Glu	Glu	Gly	Gln	Tyr	Ser	Leu	Asn	Phe	His	Asn	Cys	Asn	Asn	Ser
225					230					235					240
Val	Pro	Gly	Lys	Glu	His	Pro	Phe	Asp	Ile	Thr	Val	Met	Ile	Arg	Glu
				245					250					255	
Lys	Asn	Pro	Asp	Gly	Phe	Leu	Ser	Ala	Ala	Glu	Met	Pro	Leu	Phe	Lys
			260					265					270		
Leu	Tyr	Met	Val	Met	Ser	Ala	Cys	Phe	Leu	Ala	Ala	Gly	Ile	Phe	Trp
	275						280					285			
Val	Ser	Ile	Leu	Cys	Arg	Asn	Thr	Tyr	Ser	Val	Phe	Lys	Ile	His	Trp
	290					295					300				
Leu	Met	Ala	Ala	Leu	Ala	Phe	Thr	Lys	Ser	Ile	Ser	Leu	Leu	Phe	His
305					310					315					320
Ser	Ile	Asn	Tyr	Tyr	Phe	Ile	Asn	Ser	Gln	Gly	His	Pro	Ile	Glu	Gly
			325						330					335	
Leu	Ala	Val	Met	Tyr	Tyr	Ile	Ala	His	Leu	Leu	Lys	Gly	Ala	Leu	Leu
			340					345					350		
Phe	Ile	Thr	Ile	Ala	Leu	Ile	Gly	Ser	Gly	Trp	Ala	Phe	Ile	Lys	Tyr
		355					360					365			
Val	Leu	Ser	Asp	Lys	Glu	Lys	Lys	Val	Phe	Gly	Ile	Val	Ile	Pro	Met
	370					375					380				
Gln	Val	Leu	Ala	Asn	Val	Ala	Tyr	Ile	Ile	Ile	Glu	Ser	Arg	Glu	Glu
385					390					395					400
Gly	Ala	Ser	Asp	Tyr	Val	Leu	Trp	Lys	Glu	Ile	Leu	Phe	Leu	Val	Asp
			405						410					415	
Leu	Ile	Cys	Cys	Gly	Ala	Ile	Leu	Phe	Pro	Val	Val	Trp	Ser	Ile	Arg
			420					425					430		
His	Leu	Gln	Asp	Ala	Ser	Gly	Thr	Asp	Gly	Lys	Val	Ala	Val	Asn	Leu
		435					440					445			
Ala	Lys	Leu	Lys	Leu	Phe	Arg	His	Tyr	Tyr	Val	Met	Val	Ile	Cys	Tyr
	450					455					460				

Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu Leu Gln Val Ala Val Pro
 465 470 475 480
 Phe Gln Trp Gln Trp Leu Tyr Gln Leu Leu Val Glu Gly Ser Thr Leu
 485 490 495
 Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe Gln Pro Thr Gly Asn Asn
 500 505 510
 Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu Glu Asp Val Gln Met Glu
 515 520 525
 Gln Val Met Thr Asp Ser Gly Phe Arg Glu Gly Leu Ser Lys Val Asn
 530 535 540
 Lys Thr Ala Ser Gly Arg Glu Leu Leu
 545 550

<210> 1211
 <211> 543
 <212> PRT
 <213> Homo sapiens

<400> 1211
 Met Ala Val Ser Glu Arg Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu
 1 5 10 15
 Trp Gly Gln Arg Leu Leu Leu Val Leu Leu Leu Gly Gly Cys Ser Gly
 20 25 30
 Arg Ile His Arg Leu Ala Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln
 35 40 45
 Leu Asn Ser Phe Gly Phe Tyr Thr Asn Gly Ser Leu Glu Val Glu Leu
 50 55 60
 Ser Val Leu Arg Leu Gly Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu
 65 70 75 80
 Val Gly Phe Ser Leu Ser Arg Val Arg Ser Gly Arg Val Arg Ser Tyr
 85 90 95
 Ser Thr Arg Asp Phe Gln Asp Cys Pro Leu Gln Lys Asn Ser Ser Ser
 100 105 110
 Phe Leu Val Leu Phe Leu Ile Asn Thr Lys Asp Leu Gln Val Gln Val
 115 120 125
 Arg Lys Tyr Gly Glu Gln Lys Thr Leu Phe Ile Phe Pro Gly Leu Leu
 130 135 140
 Pro Glu Ala Pro Ser Lys Pro Gly Leu Pro Lys Pro Gln Ala Thr Val
 145 150 155 160
 Pro Arg Lys Val Asp Gly Gly Gly Thr Ser Ala Ala Ser Lys Pro Lys
 165 170 175

Ser	Thr	Pro	Ala	Val	Ile	Gln	Gly	Pro	Ser	Gly	Lys	Asp	Lys	Asp	Leu
			180					185					190		
Val	Leu	Gly	Leu	Ser	His	Leu	Asn	Asn	Ser	Tyr	Asn	Phe	Ser	Phe	His
		195					200					205			
Val	Val	Ile	Gly	Ser	Gln	Ala	Glu	Glu	Gly	Gln	Tyr	Ser	Leu	Asn	Phe
	210					215					220				
His	Asn	Cys	Asn	Asn	Ser	Val	Pro	Gly	Lys	Glu	His	Pro	Phe	Asp	Ile
225					230					235					240
Thr	Val	Met	Ile	Arg	Glu	Lys	Asn	Pro	Asp	Gly	Phe	Leu	Ser	Ala	Ala
				245					250					255	
Glu	Met	Pro	Leu	Phe	Lys	Leu	Tyr	Met	Val	Met	Ser	Ala	Cys	Phe	Leu
			260					265					270		
Ala	Ala	Gly	Ile	Phe	Trp	Val	Ser	Ile	Leu	Cys	Arg	Asn	Thr	Tyr	Ser
		275					280					285			
Val	Phe	Lys	Ile	His	Trp	Leu	Met	Ala	Ala	Leu	Ala	Phe	Thr	Lys	Ser
	290					295					300				
Ile	Ser	Leu	Leu	Phe	His	Ser	Ile	Asn	Tyr	Tyr	Phe	Ile	Asn	Ser	Gln
305					310					315					320
Gly	His	Pro	Ile	Glu	Gly	Leu	Ala	Val	Met	Tyr	Tyr	Ile	Ala	His	Leu
				325					330					335	
Leu	Lys	Gly	Ala	Leu	Leu	Phe	Ile	Thr	Ile	Ala	Leu	Ile	Gly	Ser	Gly
			340					345					350		
Trp	Ala	Phe	Ile	Lys	Tyr	Val	Leu	Ser	Asp	Lys	Glu	Lys	Lys	Val	Phe
		355					360					365			
Gly	Ile	Val	Ile	Pro	Met	Gln	Val	Leu	Ala	Asn	Val	Ala	Tyr	Ile	Ile
	370					375					380				
Ile	Glu	Ser	Arg	Glu	Glu	Gly	Ala	Ser	Asp	Tyr	Val	Leu	Trp	Lys	Glu
385					390					395					400
Ile	Leu	Phe	Leu	Val	Asp	Leu	Ile	Cys	Cys	Gly	Ala	Ile	Leu	Phe	Pro
				405					410					415	
Val	Val	Trp	Ser	Ile	Arg	His	Leu	Gln	Asp	Ala	Ser	Gly	Thr	Asp	Gly
			420					425					430		
Lys	Val	Ala	Val	Asn	Leu	Ala	Lys	Leu	Lys	Leu	Phe	Arg	His	Tyr	Tyr
		435					440					445			
Val	Met	Val	Ile	Cys	Tyr	Val	Tyr	Phe	Thr	Arg	Ile	Ile	Ala	Ile	Leu
	450					455					460				
Leu	Gln	Val	Ala	Val	Pro	Phe	Gln	Trp	Gln	Trp	Leu	Tyr	Gln	Leu	Leu
465					470					475					480
Val	Glu	Gly	Ser	Thr	Leu	Ala	Phe	Phe	Val	Leu	Thr	Gly	Tyr	Lys	Phe
				485					490					495	

Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Phe Ile Ala
 180 185 190

Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Xaa
 195 200

<210> 1213
 <211> 85
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1213
 Glu Leu His Lys Pro Phe Glu Tyr Leu Ile Gln Asp Asn Gly Xaa Val
 1 5 10 15

Leu Leu Leu Gln Asn Asn Val Tyr Val Cys Met Tyr Ile Trp Phe Ser
 20 25 30

Ile Tyr Ile Lys Gly Leu Asp Glu Pro Pro Lys Asn Trp Leu Arg Thr
 35 40 45

Leu Gln Trp Asn Leu Gln Ala Ser Ile Cys Lys Ser Ala Arg His Lys
 50 55 60

Thr Thr Cys Ser Leu Arg Ala Lys Arg Met Arg Phe Ser Gln Ile Leu
 65 70 75 80

Ile Ile Leu Asn Val
 85

<210> 1214
 <211> 289
 <212> PRT
 <213> Homo sapiens

<400> 1214
 Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr
 1 5 10 15

Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu
 20 25 30

Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser
 35 40 45

Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp
 50 55 60

Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys
 65 70 75 80

Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile
85 90 95

Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys
100 105 110

Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala
115 120 125

Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met
130 135 140

Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His
145 150 155 160

Val Ile Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly
165 170 175

Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Ser Ile Ala
180 185 190

Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Val Tyr Trp Val Leu
195 200 205

Gln Asp Pro Val Tyr Glu Asp Leu Leu Ser Glu Asn Arg Lys Met Ile
210 215 220

Thr Asn Glu Lys Ile Asp Ala Tyr Asn Glu Ala Ala Val Ser Ile Leu
225 230 235 240

Asn Ser Ser Thr Arg Asn Ser Lys Ser Asn Val Lys Met Phe Ser Val
245 250 255

Ser Lys Leu Ile Ala Gln Glu Thr Ile Met Glu Ser Leu Asp Gly Leu
260 265 270

His Leu Pro Glu Ser Ser Arg Glu Thr Val Arg Asn Phe Tyr Ile Cys
275 280 285

Gln

<210> 1215
<211> 215
<212> PRT
<213> Homo sapiens

<400> 1215
Cys Glu Val Arg Pro Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe
1 5 10 15

His Asp Asn Asn Asn Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp
20 25 30

Pro Val Cys Lys His Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr
35 40 45

Ser Arg Gly Val Leu Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val

50					55					60					
Phe	Lys	Val	Asn	His	Met	Lys	Val	Thr	Pro	Met	Asp	Ala	Ala	Thr	Ala
65					70					75					80
Ser	Leu	Leu	Asn	Val	Phe	Asn	Gly	Asn	Glu	Cys	Gly	Ala	Glu	Gly	Ser
			85						90					95	
Trp	Gln	Val	Gly	Ile	Gln	Gln	Asp	Val	Thr	His	Thr	Asn	Gly	Cys	Val
			100					105					110		
Ala	Leu	Gly	Ile	Lys	Leu	Pro	His	Thr	Glu	Tyr	Glu	Ile	Phe	Lys	Met
		115					120					125			
Glu	Gln	Asp	Ala	Arg	Gly	Arg	Tyr	Leu	Leu	Phe	Asn	Gly	Gln	Arg	Pro
	130					135					140				
Ser	Asp	Gly	Ser	Ser	Pro	Asp	Arg	Pro	Glu	Lys	Arg	Ala	Thr	Ser	Tyr
145					150					155					160
Gln	Met	Pro	Leu	Val	Gln	Cys	Ala	Ser	Ser	Ser	Pro	Arg	Ala	Glu	Asp
				165					170					175	
Leu	Ala	Glu	Asp	Ser	Gly	Ser	Ser	Leu	Tyr	Gly	Arg	Ala	Pro	Gly	Arg
			180					185					190		
His	Thr	Trp	Ser	Leu	Leu	Leu	Ala	Ala	Leu	Ala	Cys	Leu	Val	Pro	Leu
		195					200					205			
Leu	His	Trp	Asn	Ile	Arg	Arg									
	210					215									

<210> 1216

<211> 466

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (458)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (460)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

290	295	300
Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn		
305	310	315 320
Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His		
	325	330 335
Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu		
	340	345 350
Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His		
	355	360 365
Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val		
	370	375 380
Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile		
	385	390 395 400
Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys		
	405	410 415
Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg		
	420	425 430
Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser		
	435	440 445
Pro Asp Arg Pro Arg Arg Lys Lys Gly Xaa Lys Xaa Xaa Lys Xaa Ala		
	450	455 460
Pro Pro		
465		
<210> 1217		
<211> 514		
<212> PRT		
<213> Homo sapiens		
<400> 1217		
Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu		
1	5	10 15
Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser		
	20	25 30
Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys		
	35	40 45
Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg		
	50	55 60
Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr		
	65	70 75 80
Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg		
	85	90 95

Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser
 100 105 110
 Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile
 115 120 125
 Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp
 130 135 140
 Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala
 145 150 155 160
 Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala
 165 170 175
 Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu
 180 185 190
 Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu
 195 200 205
 Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp
 210 215 220
 His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr
 225 230 235 240
 Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn
 245 250 255
 Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Arg Ile Ile Tyr Arg
 260 265 270
 Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr
 275 280 285
 Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro
 290 295 300
 Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn
 305 310 315 320
 Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His
 325 330 335
 Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu
 340 345 350
 Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His
 355 360 365
 Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val
 370 375 380
 Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile
 385 390 395 400
 Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys
 405 410 415


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<400> 1220
His Leu Leu Glu Val Thr Pro Cys Arg Leu Pro Val Pro Glu Phe Pro
  1              5              10              15

Gly Arg Thr Pro Arg Gly Ser Arg Thr Pro Asp Met Arg Arg Leu Leu
          20              25              30

Leu Val Thr Ser Leu Val Val Val Leu Leu Trp Glu Ala Gly Ala Val
          35              40              45

Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val Lys His Trp Pro Ser
  50              55              60

Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg Val Val Glu Pro Pro
  65              70              75              80

Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro Val Gln Lys Pro Lys
          85              90              95

Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln Gly Arg Gly Pro Ile
          100              105              110

Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg
          115              120              125

Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro
          130              135              140

Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn
          145              150              155              160

His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His
          165              170              175

Pro Gln

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<400> 1221


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<400> 1222
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
  1                               10                          15
Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
      20                        25                      30
Cys Arg Glu Pro Thr Ser Ser
    35
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<400> 1223
Gly Thr Leu Gln Arg Gly Phe Leu Leu Cys Ser Leu Val Pro Gly Trp
  1                               10                      15
Gly Trp Gly Thr Pro Ala Ala Leu Thr Asp Gly Ser Pro Phe Ser Leu
  20                               25                      30
Ser Gly His Pro Ser Pro Thr Leu Thr Cys Thr Lys Phe Ser Pro Gln
  35                               40                      45
Leu Leu Cys Val Ala Pro
  50

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<400> 1224
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
  1                               10                          15
Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
  20                          25                          30

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Cys Arg Glu Pro Thr Ser Ser
35

<210> 1225
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1225
Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser
1 5 10 15
Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser
20 25 30
Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser
35 40 45
Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu
50 55 60
Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val
65 70 75 80
Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro
85 90 95
Gly Pro Ser Lys Gly Glu Arg Tyr Val Thr Phe Gly Val Val Gly Gly
100 105 110
Ala Gly Ser Asn Leu Ala Val His Ser Ala Arg Pro Leu Ile Gly Asn
115 120 125
Leu Leu Ser Val Gly Pro Thr Ser Thr Leu Thr Pro Thr Arg Gly Leu
130 135 140
Ser Trp Gln Ser Ile Ala Ala Ser Pro Ser Ser Thr Gly His Ala Lys
145 150 155 160
Phe Arg Glu Thr Xaa Lys Asn
165

<210> 1226
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1226
 Gln Leu Arg Xaa Leu Arg Asp Ser Ile Pro Glu Gln Phe Cys Asn Arg
 1 5 10 15
 Leu Lys Ala Pro Gly Asn Arg Thr His Ile Ser Gly Cys Leu Gly Gly
 20 25 30
 Gly Gln Asp Leu Gly Gly Pro Glu Arg Val Phe Trp Asp Asp Gly Ile
 35 40 45
 Phe Cys Ile Leu Thr Val Trp Cys Leu His Arg Xaa Gln His Leu Ser
 50 55 60
 Glu Ile Asn Gly Leu Ser Leu
 65 70

<210> 1227
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1227
 Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser
 1 5 10 15
 Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser
 20 25 30
 Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser
 35 40 45
 Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu
 50 55 60
 Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val
 65 70 75 80
 Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro
 85 90 95
 Gly Pro Ser Lys Gly Glu Arg Tyr Val Tyr Phe Arg Gly Gly Arg Gly
 100 105 110
 Cys Gly

<210> 1228
 <211> 123
 <212> PRT
 <213> Homo sapiens

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln
 115 120

<210> 1230
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1230
 Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1 5 10 15
 Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln
 20 25 30
 Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe
 35 40 45
 Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp
 50 55 60
 Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
 65 70 75 80
 Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala
 85 90 95
 Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys
 100 105 110
 Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly Thr Arg Ser Cys
 115 120 125

<210> 1231
 <211> 492
 <212> PRT
 <213> Homo sapiens

<400> 1231
 Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1 5 10 15
 Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln
 20 25 30
 Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe
 35 40 45
 Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp
 50 55 60
 Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
 65 70 75 80

[illegible]

695

465

470

475

480

Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
485 490

<210> 1233

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1233

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
1 5 10 15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly
20 25 30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala
35 40 45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly
50 55 60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
65 70 75 80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile
85 90 95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala
100 105 110

Phe Ala Met Ala His Arg Ser Leu Tyr Leu Phe Leu Arg Lys Cys Phe
115 120 125

Leu Leu Phe Ala Gly Gln Val Pro Lys Asn Arg Gln Met Phe Leu Leu
130 135 140

Lys Asp Gln Pro Ile Arg Leu Val Arg Thr Arg Arg Leu Trp Pro Arg
145 150 155 160

Ala Ser Pro Leu Gln Ala Cys Gly Leu Arg Trp His Leu Ala Ala Gly
165 170 175

Pro Gln Pro Gly Glu Gly Tyr Tyr
180

<210> 1234

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1234

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
1 5 10 15

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Experimental design' to 'Data analysis' and 'Statistical analysis'. 'Experimental design' includes 'Hypothesis', 'Design', 'Subjects', 'Intervention', and 'Outcome'. 'Data analysis' includes 'Data collection', 'Data management', 'Data analysis', and 'Data interpretation'. 'Statistical analysis' includes 'Statistical analysis', 'Statistical interpretation', and 'Statistical conclusion'. Arrows indicate the flow between these components.

<211> 133

<213> Home

Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
1 5 10 15

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala
35 40 45

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
65 70 75 80

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala
100 105 110

Phe Ala Met Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 115 120 125

Lys Lys Lys Lys Lys
130

<210> 1236
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 1236
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
 1 5 10 15
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
 20 25 30
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
 35 40 45
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
 50 55 60
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
 65 70 75 80
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
 85 90 95
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
 100 105 110
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
 115 120 125
 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
 130 135 140
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
 145 150 155 160
 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
 165 170 175
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
 180 185 190
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
 195 200 205
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
 210 215 220
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
 225 230 235 240
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
 245 250 255
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
 260 265 270
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
 275 280 285

[illegible]

<400> 1237

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145 150 155 160

Ile	Ser	Leu	Gln	Cys	Gln	Ala	Arg	Gly	Ser	Pro	Pro	Ile	Ser	Tyr	Ile
				165					170					175	
Trp	Tyr	Lys	Gln	Gln	Thr	Asn	Asn	Gln	Glu	Pro	Ile	Lys	Val	Ala	Thr
			180					185					190		
Leu	Ser	Thr	Leu	Leu	Phe	Lys	Pro	Ala	Val	Ile	Ala	Asp	Ser	Gly	Ser
		195					200					205			
Tyr	Phe	Cys	Thr	Ala	Lys	Gly	Gln	Val	Gly	Ser	Glu	Gln	His	Ser	Asp
	210					215					220				
Ile	Val	Lys	Phe	Val	Val	Lys	Asp	Ser	Ser	Lys	Leu	Leu	Lys	Thr	Lys
225					230					235					240
Thr	Glu	Ala	Pro	Thr	Thr	Met	Thr	Tyr	Pro	Leu	Lys	Ala	Thr	Ser	Thr
				245					250					255	
Val	Lys	Gln	Ser	Trp	Asp	Trp	Thr	Thr	Asp	Met	Asp	Gly	Tyr	Leu	Gly
			260					265					270		
Glu	Thr	Ser	Ala	Gly	Pro	Gly	Lys	Ser	Leu	Pro	Val	Phe	Ala	Ile	Ile
		275					280					285			
Leu	Ile	Ile	Ser	Leu	Cys	Cys	Met	Val	Val	Phe	Thr	Met	Ala	Tyr	Ile
	290					295					300				
Met	Leu	Cys	Arg	Lys	Thr	Ser	Gln	Gln	Glu	His	Val	Tyr	Glu	Ala	Ala
305					310					315					320
Arg	Ala	His	Ala	Arg	Glu	Ala	Asn	Asp	Ser	Gly	Glu	Thr	Met	Arg	Val
				325					330					335	
Ala	Ile	Phe	Ala	Ser	Gly	Cys	Ser	Ser	Asp	Glu	Pro	Thr	Ser	Gln	Asn
			340					345					350		
Leu	Gly	Asn	Asn	Tyr	Ser	Asp	Glu	Pro	Cys	Ile	Gly	Gln	Glu	Tyr	Gln
		355					360					365			
Ile	Ile	Ala	Gln	Ile	Asn	Gly	Asn	Tyr	Ala	Arg	Leu	Leu	Asp	Thr	Val
	370					375					380				
Pro	Leu	Asp	Tyr	Glu	Phe	Leu	Ala	Thr	Glu	Gly	Lys	Ser	Val	Cys	
385					390					395					

<210> 1238

<212> PRT

<221>

<223> Xaa

<220>

<222> (18)'

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1238

Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Xaa Ile
1 5 10 15

Leu Xaa Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
20 25 30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
35 40 45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
50 55 60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
65 70 75 80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
85 90 95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
100 105 110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa
115 120 125

Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His
130 135 140

Asn Pro Xaa Asp Asp Ile Gly Xaa Ser Phe Tyr Pro Glu Leu Gly Ser
145 150 155 160

Tyr Ser Ser Arg Asp Pro Ser Val Ile Glu Thr His Met Arg Gln Met
165 170 175

Arg Ser Ala Ser Ile Gly Asn Tyr Cys Ile Tyr Ile Tyr Met Cys Val
180 185 190

Phe Val Ser Val Tyr Met His Ile Asn Asp Phe Leu Cys Asn Phe Asn
195 200 205

Ser

[illegible]

Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro
1 5 10 15

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro
35 40 45

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe
50 55 60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys
65 70 75 80

```
<210> 1240
<211> 133
<212> PRT
<213> Homo sapiens
```

Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile
1 5 10 15

Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
20 25 30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
35 40 45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
50 55 60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
65 70 75 80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
85 90 95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
100 105 110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Leu
1:15 120 125

Glu His Trp Asp Pro
130

<210> 1241
 <211> 886
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (234)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (275)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (871)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1241
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu
 1 5 10 15
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys
 20 25 30
 Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
 35 40 45
 Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
 50 55 60
 Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
 65 70 75 80
 Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
 85 90 95
 Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
 100 105 110
 Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
 115 120 125
 Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
 130 135 140

Trp	Gln	Pro	Lys	Thr	Gly	Ala	Tyr	Gln	Tyr	Thr	Ile	Arg	Ala	His	Gly	465	470	475	480
Gly	Ser	Gly	Asn	Phe	Ser	Trp	Ser	Ser	Ser	Ser	His	Leu	Val	Ala	Thr	485	490	495	
Val	Thr	Val	Lys	Gly	Val	Met	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser	500	505	510	
Val	Ile	Gln	Ala	His	Asp	Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met	515	520	525	
Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln	530	535	540	
Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser	545	550	555	560
Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys	565	570	575	
Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln	580	585	590	
Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val	595	600	605	
Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr	610	615	620	
Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr	625	630	635	640
Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu	645	650	655	
Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile	660	665	670	
Leu	Glu	Pro	Ser	Lys	Phe	Phe	Gln	Asn	Val	Thr	Ala	Glu	Asp	Thr	Asp	675	680	685	
Ser	Ile	Gly	Leu	Ala	Leu	Phe	Ala	Pro	His	Ser	Ser	Arg	Asn	Tyr	Gln	690	695	700	
Gln	His	Trp	Ile	Leu	Val	Thr	Cys	Gln	Ala	Leu	Gly	Glu	Gln	Val	Ile	705	710	715	720
Ala	Leu	Ser	Val	Gly	Asn	Lys	Pro	Ser	Leu	Thr	Asn	Pro	Phe	Pro	Ala	725	730	735	
Val	Glu	Pro	Ala	Val	Val	Lys	Phe	Val	Cys	Ala	Pro	Pro	Ser	Arg	Leu	740	745	750	
Thr	Leu	Val	Pro	Val	Tyr	Thr	Ser	Pro	Gln	Leu	Asp	Met	Ser	Cys	Pro	755	760	765	
Leu	Leu	Gln	Gln	Asn	Lys	Gln	Val	Val	Pro	Val	Ser	Ser	His	Arg	Asn	770	775	780	

<211> 831

<213> Hom

Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu
1 5 10 15

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
35 40 45

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
65 70 75 80

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
100 105 110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
115 120 125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
130 135 140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr
145 150 155 160

Gly	Ser	Gly	Asn	Phe	Ser	Trp	Ser	Ser	Ser	Ser	His	Leu	Val	Ala	Thr
				485						490					495
Val	Thr	Val	Lys	Gly	Val	Met	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser
			500					505					510		
Val	Ile	Gln	Ala	His	Asp	Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met
		515					520					525			
Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln
	530					535					540				
Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser
545					550					555					560
Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys
				565					570					575	
Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln
			580					585					590		
Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val
		595					600					605			
Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr
	610					615					620				
Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr
625					630					635					640
Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu
				645					650					655	
Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile
			660					665					670		
Leu	Glu	Pro	Ser	Lys	Phe	Phe	Gln	Asn	Val	Thr	Ala	Glu	Asp	Thr	Asp
		675					680					685			
Ser	Ile	Gly	Leu	Ala	Leu	Phe	Ala	Pro	His	Ser	Ser	Arg	Asn	Tyr	Gln
	690					695					700				
Gln	His	Trp	Ile	Leu	Val	Thr	Cys	Gln	Ala	Leu	Gly	Glu	Gln	Val	Ile
705					710					715					720
Ala	Leu	Ser	Val	Gly	Asn	Lys	Pro	Ser	Leu	Thr	Asn	Pro	Phe	Pro	Ala
				725					730					735	
Val	Glu	Pro	Ala	Val	Val	Lys	Phe	Val	Cys	Ala	Pro	Pro	Ser	Arg	Leu
			740					745					750		
Thr	Leu	Val	Pro	Val	Tyr	Thr	Ser	Pro	Gln	Leu	Asp	Met	Ser	Cys	Pro
		755					760					765			
Leu	Leu	Gln	Gln	Asn	Lys	Gln	Val	Val	Pro	Val	Ser	Ser	His	Arg	Asn
	770					775					780				
Pro	Leu	Leu	Asp	Leu	Ala	Ala	Tyr	Asp	Gln	Glu	Gly	Arg	Arg	Phe	Asp
785					790					795					800

50

55

60

His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg
65 70 75

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<210> 1245
<211> 89
<212> PRT
<213> Homo sapiens
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```
<400> 1245
Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala
  1           5           10           15
```

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala
20 25 30.

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe
35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala
50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro
65 70 75 80

Arg Trp Ser. Leu Gln Leu Leu Pro Arg
85

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<210> 1246
<211> 334
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> '(129)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1246
Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly

710

1	5	10	15
Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu	20	25	30
Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu	35	40	45
Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser	50	55	60
Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala	65	70	75
Thr Pro Leu Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala	85	90	95
Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe	100	105	110
Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Xaa Ile Ser Ser Val	115	120	125
Xaa Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg	130	135	140
Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu	145	150	155
Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu	165	170	175
Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val	180	185	190
Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe	195	200	205
Leu Val Tyr Arg Arg Xaa Pro Pro Pro Arg Ser Leu Ser Pro Ser Xaa	210	215	220
Pro Ala Asp Gln Asn Gln Ala Glu Arg Arg Arg Thr Gly Thr Thr Gly	225	230	235
Cys His Thr Arg Gln Glu Glu Val Trp Thr Val Met Val Arg Arg Pro	245	250	255
Cys Ile Ser Leu Arg Val Ala Ser Gly Ser Ser Val Asp Arg Thr Val	260	265	270
Pro Pro Gly Thr His Leu Gln Val Asp Pro Glu Ala Ser Arg Pro Gly	275	280	285
Leu Glu Arg Arg Pro Gln Gly Leu Ser Gly Asp Ser Glu Ala Ala Pro	290	295	300
Pro Thr Thr Tyr Leu Ile Leu Pro Thr Gln Asp Cys Pro Val Asn Ser	305	310	315
Arg Gln Leu Asn Lys Gln Ala Gly Tyr Ser Gly Ser His Leu			

<400> 1247

Pro Ser
225

```
<210> 1248
<211> 184
<212> PRT
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<213> Homo sapiens

<400> 1248

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
50 55 60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
65 70 75 80

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
85 90 95

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
100 105 110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys
115 120 125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
130 135 140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
145 150 155 160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
165 170 175

Ser Ile Cys Ala Asp Ile His Val
180

<210> 1249

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1249

Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
1 5 10 15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
20 25 30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
35 40 45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
50 55 60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala

65		70		75		80
Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn						
	85			90		95
Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser						
	100			105		110
Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys						
	115			120		125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys						
	130			135		140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val						
	145			150		155
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile						
	165			170		175
Ser Ile Cys Ala Asp Ile His Val						
	180					

<210> 1250

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1250

Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val																
	1			5				10							15	

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met																
			20				25						30			

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg																
		35				40						45				

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser																
	50				55				60							

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala																
	65				70				75						80	

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala																
			85					90						95		

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly																
			100				105						110			

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala																
		115				120					125					

Ala Thr Arg Ser Ala Lys Arg Trp Ser Trp Ser Ser Ala Ser Gly Pro																
	130					135					140					

Leu Gln Leu Pro Ala Gly Arg Leu Leu Gln Asp Gln Gln Val Gly Glu																
	145				150				155						160	

Ser Cys Cys Cys Ser Thr His Leu Leu Arg Gly Gln Ser
165 170

<210> 1251

<211> 359

<212> PRT

<213> Homo sapiens

<400> 1251

Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val
1 5 10 15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met
20 25 30

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg
35 40 45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser
50 55 60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala
65 70 75 80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala
85 90 95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly
100 105 110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala
115 120 125

Ala His Ser Leu Ser Glu Glu Met Glu Leu Glu Phe Arg Lys Arg Ser
130 135 140

Pro Tyr Asn Tyr Leu Gln Val Ala Tyr Phe Lys Ile Asn Lys Leu Glu
145 150 155 160

Lys Ala Val Ala Ala Ala His Thr Phe Phe Val Gly Asn Pro Glu His
165 170 175

Met Glu Met Gln Gln Asn Leu Asp Tyr Tyr Gln Thr Met Ser Gly Val
180 185 190

Lys Glu Ala Asp Phe Lys Asp Leu Glu Thr Gln Pro His Met Gln Glu
195 200 205

Phe Arg Leu Gly Val Arg Leu Tyr Ser Glu Glu Gln Pro Gln Glu Ala
210 215 220

Val Pro His Leu Glu Ala Ala Leu Gln Glu Tyr Phe Val Ala Tyr Glu
225 230 235 240

Glu Cys Arg Ala Leu Cys Glu Gly Pro Tyr Asp Tyr Asp Gly Tyr Asn
245 250 255

Tyr Leu Glu Tyr Asn Ala Asp Leu Phe Gln Ala Ile Thr Asp His Tyr
 260 265 270
 Ile Gln Val Leu Asn Cys Lys Gln Asn Cys Val Thr Glu Leu Ala Ser
 275 280 285
 His Pro Ser Arg Glu Lys Pro Phe Glu Asp Phe Leu Pro Ser His Tyr
 290 295 300
 Asn Tyr Leu Gln Phe Ala Tyr Tyr Asn Ile Gly Asn Tyr Thr Gln Ala
 305 310 315 320
 Val Glu Cys Ala Lys Thr Tyr Leu Leu Phe Phe Pro Asn Asp Glu Val
 325 330 335
 Met Asn Gln Asn Leu Ala Leu Leu Cys Ser Tyr Ala Trp Arg Arg Thr
 340 345 350
 His Gln Ile His Arg Pro Pro
 355

<210> 1252
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1252
 Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Leu Val Asn Ser
 1 5 10 15
 Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro
 20 25 30
 Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu
 35 40 45
 Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys
 50 55 60
 Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys
 65 70 75

<210> 1253
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1253
 Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Leu Val Asn Ser
 1 5 10 15
 Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro
 20 25 30
 Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu
 35 40 45

Figure 6. The effect of the initial concentration of the monomer on the polymerization of **1**. Polymerization conditions: [AIBN] = 0.01 mol/L; [M] = 0.01–0.1 mol/L; [H₂O] = 0.01 mol/L; [DMSO] = 0.09 mol/L; T = 70 °C; t = 2 h.

<222> (43)

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1255

Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
1 5 10 15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
20 25 30

Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser
35 40 45

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
50 55 60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
65 70 75 80

Ser Leu Thr Gly Tyr Val
85

<210> 1256

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1256

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
 . 100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
115 120 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
130 135 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
145 150 155 160

[illegible]

<211> 331

<213> Hom

Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser Phe
1 5 10 15

Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe Ser Phe Glu
35 40 45

Ile Ser Ala Ile Ala His Arg Gly Gly Ser His Asp Ala Pro Glu Asn
65 70 75 80

Glu Leu Asp Ile Glu Phe Thr Ser Asp Gly Ile Pro Val Leu Met His
100 105 110

Leu Thr Phe Glu Gln Ile Arg Lys Leu Asn Pro Ala Ala Asn His Arg
130 135 140

Val Ala Glu Cys Leu Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys
165 170 175

Gly His Ala His Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu
180 185 190

Phe Pro Gln Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu
 195 200 205
 Val Ile Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu
 210 215 220
 Thr His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
 225 230 235 240
 Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile Leu
 245 250 255
 Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly Ile Ser
 260 265 270
 Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr Leu Lys Lys
 275 280 285
 Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr Val Asn Thr Phe
 290 295 300
 Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly Ser Ser Tyr Ile Thr
 305 310 315 320
 Asp Ser Met Val Glu Asp Cys Glu Pro His Phe
 325 330

<210> 1258
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 1258
 Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1 5 10 15
 Pro Ile Gly Val His Leu His Ser Val Arg Asp
 20 25

<210> 1259
 <211> 485
 <212> PRT
 <213> Homo sapiens

<400> 1259
 Ala Arg Gly Arg Leu Leu Pro Trp Trp Leu Ala Ala Gly Cys Ser Met
 1 5 10 15
 Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu Leu
 20 25 30
 Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser Gln
 35 40 45
 Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro Asn
 50 55 60

Parameter	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
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Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys
 385 390 395 400
 Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp
 405 410 415
 Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser
 420 425 430
 Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys
 435 440 445
 Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp
 450 455 460
 Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu
 465 470 475 480
 Val Ile Leu Arg Asp
 485

<210> 1260
 <211> 470
 <212> PRT
 <213> Homo sapiens

<400> 1260
 Met Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu
 1 5 10 15
 Leu Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser
 20 25 30
 Gln Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro
 35 40 45
 Asn Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met
 50 55 60
 Leu Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro
 65 70 75 80
 Ser Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe
 85 90 95
 Val Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg
 100 105 110
 Ser Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys
 115 120 125
 His Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe
 130 135 140
 Val Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr
 145 150 155 160

<210> 1261
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1261
 Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Val Ala Leu Phe Ile
 1 5 10 15
 Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
 20 25 30
 His Glu Gly Ser Leu
 35

<210> 1262
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1262
 Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Val Ala Leu Phe Ile
 1 5 10 15
 Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
 20 25 30
 His Glu Gly Ser Leu
 35

<210> 1263
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1263
 Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly
 1 5 10 15
 Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly
 20 25 30
 Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro
 35 40 45
 Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser
 50 55 60
 Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala
 65 70 75 80
 Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile
 85 90 95

Met His Leu Leu Leu Pro Pro Gly Leu
100 105

<210> 1264
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1264
Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly
1 5 10 15

Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly
20 25 30

Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro
35 40 45

Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser
50 55 60

Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala
65 70 75 80

Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile
85 90 95

Met His Leu Leu Leu Pro Pro Gly Leu
100 105

<210> 1265
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1265
Met Thr Leu Cys Leu Val Thr Phe Leu Thr Ser Leu Pro Thr Ser Val
1 5 10 15

Pro Ala Cys Thr Ser Cys Trp Pro Gly Phe Met Arg Ser Ser Lys Asn
20 25 30

Ala Tyr Asp Thr His His Trp Gly Gly Gln Arg Ser Met Asn Leu Glu
35 40 45

Ser Leu Thr Cys Gly Gln Leu Ala Ile Arg Trp Thr Arg Gly Trp Met
50 55 60

Thr Arg Pro Arg Gln Val Trp Ala Met Pro Gly Gln Thr Val Asp Val
65 70 75 80

Tyr Leu Gly Arg Met Leu Gln Gly Val Val Leu Arg Gly Gln Thr Leu
85 90 95

Arg Gly Arg Ala Xaa
100

<210> 1266
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1266
Lys Ala Val Thr Gly Trp Ala His Trp Leu Thr Pro Ile Ile Pro Ala
1 5 10 15

Leu Trp Glu Ala Lys Ala Gly Arg Ser Leu Glu Val Arg Ile Ser Arg
20 25 30

Pro Ala Trp Ser Thr Trp Gln Asn Leu Val Ser Thr Lys Asn Thr Lys
35 40 45

Ile Arg
50

<210> 1267
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1267
Glu Val Leu Phe Ser Asn Asp Ser Val Leu Gly His Phe Pro His Gln
1 5 10 15

Ser Pro Asn Glu Arg Ala Arg Leu Tyr Phe Leu Leu Ala Trp Phe His
20 25 30

Ala Ile Ile Gln Glu Arg Leu Arg Tyr Ala Pro Leu Gly Trp Ser Lys
35 40 45

Lys Tyr Glu Phe Gly Glu Ser Asp Leu Arg Ser Ala Cys Asp Thr Val
50 55 60

Asp Thr Trp Leu Asp Asp Thr Ala Lys Ala Ser Val Gly His Ala Arg
65 70 75 80

Thr Asp Ser Gly Arg Val Ser Gly Lys Asp Ala Ala Gly Arg Gly Ala
85 90 95

Glu Arg Pro Asp Ser Ala Trp Lys Ser Glu Leu Thr Pro Arg Asp Arg
100 105 110

Gln Ser Leu Ala Gly His Gly Glu
115 120

Figure 1: Schematic representation of the experimental design. The figure is divided into two main sections: 'Pretest' and 'Main Experiment'. The 'Pretest' section includes a 'Pretest' box with 'Pretest' and 'Pretest' labels, and a 'Pretest' box with 'Pretest' and 'Pretest' labels. The 'Main Experiment' section includes a 'Main Experiment' box with 'Main Experiment' and 'Main Experiment' labels, and a 'Main Experiment' box with 'Main Experiment' and 'Main Experiment' labels.

Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
1 5 10 15

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
35 40 45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
 50 55 60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
65 70 75 80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro-Glu Asn Ala
85 90 95

Ala Ser Pro Gln Ala Thr Asn
100

<211> 261

<212> PRT

<2.13> Homo sapiens

Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
1 5 10 15

Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
20 25 30

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
35 40 45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
50 55 60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
65 70 75 80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala
85 90 95

Ala Ser Pro Gln Ala Thr Asn Ser Thr Gln Val Ser Gln Pro Ser Gly
100 105 110

Ala Met Thr Arg Ser Gln Glu Ser Val Phe Met Gly Pro Gln Glu Pro
115 120 125

Ser Cys Asp Ser Gly Ile Leu Arg Met Met Ser Arg Arg Asp Val Arg

[illegible]

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<210> 1270
<211> 277
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro
20 25 30

Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn
50 55 60

Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro

09033345 "041201

85

90

95

Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys
 100 105 110
 Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn
 115 120 125
 Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys
 130 135 140
 Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Xaa Glu Asn
 145 150 155 160
 Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly
 165 170 175
 Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val
 180 185 190
 Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn
 195 200 205
 Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu
 210 215 220
 Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr
 225 230 235 240
 Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr
 245 250 255
 Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn Thr
 260 265 270
 Ile Val Ser Gly Xaa
 275

<210> 1271

<211> 832

<212> PRT

<213> Homo sapiens

<400> 1271

Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro
 1 5 10 15
 Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro
 20 25 30
 Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly
 35 40 45
 Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn
 50 55 60
 Tyr Thr Ala Leu Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly
 65 70 75 80

729

Ala	Arg	Glu	Ala	Leu	Phe	Ala	Leu	Ser	Ser	Asn	Leu	Ser	Phe	Leu	Pro		
				85					90					95			
Gly	Gly	Glu	Tyr	Gln	Glu	Leu	Leu	Trp	Gly	Ala	Asp	Ala	Glu	Lys	Lys		
			100					105					110				
Gln	Gln	Cys	Ser	Phe	Lys	Gly	Lys	Asp	Pro	Gln	Arg	Asp	Cys	Gln	Asn		
		115					120					125					
Tyr	Ile	Lys	Ile	Leu	Leu	Pro	Leu	Ser	Gly	Ser	His	Leu	Phe	Thr	Cys		
	130					135					140						
Gly	Thr	Ala	Ala	Phe	Ser	Pro	Met	Cys	Thr	Tyr	Ile	Asn	Met	Glu	Asn		
145					150					155					160		
Phe	Thr	Leu	Ala	Arg	Asp	Glu	Lys	Gly	Asn	Val	Leu	Leu	Glu	Asp	Gly		
				165					170					175			
Lys	Gly	Arg	Cys	Pro	Phe	Asp	Pro	Asn	Phe	Lys	Ser	Thr	Ala	Leu	Val		
			180					185					190				
Val	Asp	Gly	Glu	Leu	Tyr	Thr	Gly	Thr	Val	Ser	Ser	Phe	Gln	Gly	Asn		
		195					200					205					
Asp	Pro	Ala	Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg	Pro	Thr	Lys	Thr	Glu		
	210					215					220						
Ser	Ser	Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe	Val	Ala	Ser	Ala	Tyr		
225					230					235					240		
Ile	Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp	Asp	Asp	Lys	Ile	Tyr		
				245					250					255			
Phe	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	Phe	Phe	Glu	Asn	Thr		
			260					265					270				
Ile	Val	Ser	Arg	Ile	Ala	Arg	Ile	Cys	Lys	Gly	Asp	Glu	Gly	Gly	Glu		
		275					280					285					
Arg	Val	Leu	Gln	Gln	Arg	Trp	Thr	Ser	Phe	Leu	Lys	Ala	Gln	Leu	Leu		
	290					295						300					
Cys	Ser	Arg	Pro	Asp	Asp	Gly	Phe	Pro	Phe	Asn	Val	Leu	Gln	Asp	Val		
305					310					315					320		
Phe	Thr	Leu	Ser	Pro	Ser	Pro	Gln	Asp	Trp	Arg	Asp	Thr	Leu	Phe	Tyr		
				325					330					335			
Gly	Val	Phe	Thr	Ser	Gln	Trp	His	Arg	Gly	Thr	Thr	Glu	Gly	Ser	Ala		
				340				345					350				
Val	Cys	Val	Phe	Thr	Met	Lys	Asp	Val	Gln	Arg	Val	Phe	Ser	Gly	Leu		
		355					360					365					
Tyr	Lys	Glu	Val	Asn	Arg	Glu	Thr	Gln	Gln	Trp	Tyr	Thr	Val	Thr	His		
	370					375					380						
Pro	Val	Pro	Thr	Pro	Arg	Pro	Gly	Ala	Cys	Ile	Thr	Asn	Ser	Ala	Arg		
385					390					395					400		

Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro Asp Arg Val Leu Asn
 405 410 415
 Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met
 420 425 430
 Leu Leu Leu Gln Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg
 435 440 445
 Val Pro Gly Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly
 450 455 460
 Asp Gly Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile
 465 470 475 480
 Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu
 485 490 495
 Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser Gly
 500 505 510
 Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser Cys Gly
 515 520 525
 Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Gly Ser Ser
 530 535 540
 Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala Thr Arg Pro Trp
 545 550 555 560
 Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp Leu Cys Ser Ala Ser
 565 570 575
 Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly Glu Lys Pro Cys Glu
 580 585 590
 Gln Val Gln Phe Gln Pro Asn Thr Val Asn Thr Leu Ala Cys Pro Leu
 595 600 605
 Leu Ser Asn Leu Ala Thr Arg Leu Trp Leu Arg Asn Gly Ala Pro Val
 610 615 620
 Asn Ala Ser Ala Ser Cys His Val Leu Pro Thr Gly Asp Leu Leu Leu
 625 630 635 640
 Val Gly Thr Gln Gln Leu Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu
 645 650 655
 Gly Phe Gln Gln Leu Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp
 660 665 670
 Gly Val Ala Asp Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile
 675 680 685
 Ser Thr Ser Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly
 690 695 700
 Ala Asp Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe
 705 710 715 720

Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg
725 730 735

Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val His
740 745 750

Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro Leu Asn
755 760 765

Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly Tyr Gln Ser
770 775 780

Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe Thr Glu Ser Glu Lys
785 790 795 800

Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu Val Ser Pro Val Cys
805 810 815

Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile Arg Asp Ser Val Val
820 825 830

<210> 1272
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (184)

[illegible]

Met Gly Lys Trp Lys Glu Ser Leu Gln Asn Ala Xaa His Leu Pro Pro
1 5 10 15

Gly Lys Glu Asn Gly Gln Met Ala Val Ser Asp Gly Ser Val Lys Gly
35 40 45

Leu Leu Ser Val Val Arg Xaa Trp Ser Arg Gly Pro Ala Pro Asp Pro
50 55 60

Cys Leu Val Pro Leu Ala Leu Glu Ala Leu Val Gly Ala Val His Val
65 70 75 80

Leu His Ala Ser Arg Ala Pro Pro Arg Gly Pro Glu Leu Arg Ala Leu
85 90 95

Leu Glu Ser Tyr Phe His Val Leu Asn Ala Asp Trp Pro Ala Gly Leu
100 105 110

Ser Ser Gly Pro Glu Glu Ala Leu Val Thr Leu Arg Val Ser Met Leu
115 120 125

Asp Ala Ile Pro Met Met Leu His Val Lys Thr Gly Gln Cys Leu Gln
130 135 140

Pro Pro Xaa Ser Ala'Thr Ile Ala Leu Asn Thr Xaa Leu Gly Ser Phe
145 150 155 160

Lys Asn Lys Gln Gly Ser Trp Thr Lys Thr Gln Thr His Cys Ser Pro
165 170 175

Cys Ser Gln Ser Ala Asp Leu Xaa His Glu Val Thr Pro Leu Gly Pro
180 185 190

Arg Arg Trp Leu
195

<211> 347

<212> PRT

<213> Homo sapiens

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
1 5 10 15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser
20 25 30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser
35 40 45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly

50	55	60
Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu 65 70 75 80		
Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu 85 90 95		
Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu 100 105 110		
Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu 115 120 125		
Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr 130 135 140		
Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu 145 150 155 160		
His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu 165 170 175		
Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr 180 185 190		
Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu 195 200 205		
Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu 210 215 220		
Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr 225 230 235 240		
Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe 245 250 255		
Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu 260 265 270		
Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp 275 280 285		
Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp 290 295 300		
Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys 305 310 315 320		
Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys 325 330 335		
Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln 340 345		

<210> 1274

<211> 347

<212> PRT
<213> Homo sapiens

<400> 1274

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
1 5 10 15
Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala Ala Ser
20 25 30
Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser
35 40 45
Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly
50 55 60
Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu
65 70 75 80
Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu
85 90 95
Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu
100 105 110
Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu
115 120 125
Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr
130 135 140
Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu
145 150 155 160
His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu
165 170 175
Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr
180 185 190
Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu
195 200 205
Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu
210 215 220
Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
225 230 235 240
Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
245 250 255
Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu
260 265 270
Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp
275 280 285
Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp
290 295 300

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
 225 230 235 240
 Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
 245 250 255
 Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu
 260 265 270
 Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp
 275 280 285
 Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp
 290 295 300
 Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys
 305 310 315 320
 Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys
 325 330 335
 Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln
 340 345

<210> 1276

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1276

Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp
 1 5 10 15

Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr
 20 25 30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr
 35 40 45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp
 50 55 60

Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu
 65 70 75 80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys
 85 90 95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu
 100 105 110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser
 115 120 125

Asp	Val	Asp	Tyr	Val	Leu	Val	Ile	Phe	Gly	Gly	Val	Ile	Gly	Tyr	Ser
		115					120						125		
Gly	Asp	Asp	Ile	Asn	Lys	Phe	Leu	Trp	Met	Val	Arg	Ile	Ala	Glu	Gly
	130					135					140				
Glu	His	Pro	Lys	Asp	Ile	Arg	Glu	Ser	Asp	Tyr	Phe	Thr	Pro	Gln	Gly
145					150					155					160
Glu	Phe	Arg	Val	Asp	Lys	Ala	Gly	Ser	Pro	Thr	Leu	Leu	Asn	Cys	Leu
				165					170					175	
Met	Tyr	Lys	Met	Ser	Tyr	Tyr	Arg	Phe	Gly	Glu	Met	Gln	Leu	Asp	Phe
			180					185					190		
Arg	Thr	Pro	Pro	Gly	Phe	Asp	Arg	Thr	Arg	Asn	Ala	Glu	Ile	Gly	Asn
		195					200					205			
Lys	Asp	Ile	Lys	Phe	Lys	His	Leu	Glu	Glu	Ala	Phe	Thr	Ser	Glu	His
	210					215					220				
Trp	Leu	Val	Arg	Ile	Tyr	Lys	Val	Lys	Ala	Pro	Asp	Asn	Arg	Glu	Thr
225					230					235					240
Leu	Asp	His	Lys	Pro	Arg	Val	Thr	Asn	Ile	Phe	Pro	Lys	Gln	Lys	Tyr
				245					250					255	
Leu	Ser	Lys	Lys	Thr	Thr	Lys	Arg	Lys	Arg	Gly	Tyr	Ile	Lys	Asn	Lys
			260					265					270		
Leu	Val	Phe	Lys	Lys	Gly	Lys	Lys	Ile	Ser	Lys	Lys	Thr	Val		
		275					280					285			

<210> 1278

<212> PRT

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Leu Pro Leu Cys Pro
1 5 10 15

Figure 1 consists of 11 bar charts, labeled (a) through (k), each showing the percentage of respondents for different categories. The categories are: (a) Total, (b) Male, (c) Female, (d) Under 18, (e) 18-24, (f) 25-34, (g) 35-44, (h) 45-54, (i) 55-64, (j) 65-74, and (k) 75+. The charts show the distribution of respondents across various categories, with the highest percentages generally in the 'Total' and 'Male' categories.

```

<400> 1279
Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Leu Pro Leu Cys Pro
  1                               10                      15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys
                20                      25                      30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu
          35                      40                      45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln
  50                      55                      60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu
  65                      70                      75                      80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu
                85                      90                      95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp
          100                      105                      110

Pro Gly Gly Cys Pro Ser Leu Cys Ala Gly Pro Gly Asp Trp Lys Lys
          115                      120                      125

Cys Gly Gln Arg Cys Ala
  130

```

```
<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally-occurring L-amino acids.
```


[illegible]

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<210> 1281
<211> 17
<212> PRT
<213> Homo sapiens
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```
<210> 1282
<211> 17
<212> PRT
<213> Homo sapiens
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```
<210> 1283
<211> 182
<212> PRT
<213> Homo sapiens
```

741

000344-041201

115					120					125					
Asn	Ala	Gly	Ile	Phe	Asn	Ala	Phe	Ala	Thr	Ala	Ala	Phe	Arg	Phe	Gly
130					135					140					
His	Thr	Leu	Val	Asn	Pro	Leu	Leu	Tyr	Arg	Leu	Asp	Glu	Asn	Phe	Gln
145				150						155					160
Pro	Ile	Ala	Gln	Asp	His	Leu	Pro	Leu	His	Lys	Ala	Phe	Phe	Ser	Pro
				165					170					175	
Phe	Arg	Ile	Val	Asn	Glu	Gly	Gly	Ile	Asp	Pro	Leu	Leu	Arg	Gly	Leu
			180					185					190		
Phe	Gly	Val	Ala	Gly	Lys	Met	Arg	Val	Pro	Ser	Gln	Leu	Leu	Asn	Thr
		195					200					205			
Glu	Leu	Thr	Glu	Arg	Leu	Phe	Ser	Met	Ala	His	Thr	Val	Ala	Leu	Asp
		210				215					220				
Leu	Ala	Ala	Ile	Asn	Ile	Gln	Arg	Gly	Arg	Asp	His	Gly	Ile	Pro	Pro
225				230						235					240
Tyr	His	Asp	Tyr	Arg	Val	Tyr	Cys	Asn	Leu	Ser	Ala	Ala	His	Thr	Phe
				245					250					255	
Glu	Asp	Leu	Lys	Asn	Glu	Ile	Lys	Asn	Pro	Glu	Ile	Arg	Glu	Lys	Leu
			260					265					270		
Lys	Arg	Leu	Tyr	Gly	Ser	Thr	Leu	Asn	Ile	Asp	Leu	Phe	Pro	Ala	Leu
			275				280					285			
Val	Val	Glu	Asp	Leu	Val	Pro	Gly	Ser	Arg	Leu	Gly	Pro	Thr	Leu	Met
		290				295					300				
Cys	Leu	Leu	Ser	Thr	Gln	Phe	Lys	Arg	Leu	Arg	Asp	Gly	Asp	Arg	Leu
305				310						315					320
Trp	Tyr	Glu	Asn	Pro	Gly	Val	Phe	Ser	Pro	Ala	Gln	Leu	Thr	Gln	Ile
				325					330					335	
Lys	Gln	Thr	Ser	Leu	Ala	Arg	Ile	Leu	Cys	Asp	Asn	Ala	Asp	Asn	Ile
			340					345					350		
Thr	Arg	Val	Gln	Ser	Asp	Val	Phe	Arg	Val	Ala	Glu	Phe	Pro	His	Gly
			355				360					365			
Tyr	Gly	Ser	Cys	Asp	Glu	Ile	Pro	Arg	Val	Asp	Leu	Arg	Val	Trp	Gln
			370			375					380				
Asp	Cys	Cys	Glu	Asp	Cys	Arg	Thr	Arg	Gly	Gln	Phe	Asn	Ala	Phe	Ser
385				390						395					400
Tyr	His	Phe	Arg	Gly	Arg	Arg	Ser	Leu	Glu	Phe	Ser	Tyr	Gln	Glu	Asp
				405					410					415	
Lys	Pro	Thr	Lys	Lys	Thr	Arg	Pro	Arg	Lys	Ile	Pro	Ser	Val	Gly	Arg
			420					425					430		
Gln	Gly	Glu	His	Leu	Ser	Asn	Ser	Thr	Ser	Ala	Phe	Ser	Thr	Arg	Ser

445

Arg Ala Glu Glu Lys Pro
545 550

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His

744

[illegible]

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu
165 170

<210> 1287
<211> 148
<212> PRT
<213> Homo sapiens

<400> 1287
Met Thr Trp Lys Ile Lys Leu Arg Ser Ala Val Tyr Leu Ser Asp Ala
1 5 10 15
Thr Val Thr Thr Leu Gly Asn Leu Val Pro Phe Thr Leu Thr Leu Leu
20 25 30
Cys Phe Leu Leu Leu Ile Cys Ser Leu Cys Lys His Leu Lys Lys Met
35 40 45
Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His Ile
50 55 60
Lys Val Leu Gln Thr Val Ile Phe Phe Leu Leu Leu Cys Ala Ile Tyr
65 70 75 80
Phe Leu Ser Ile Met Ile Ser Val Trp Ser Phe Gly Ser Leu Glu Asn
85 90 95
Lys Pro Val Phe Met Phe Cys Lys Ala Ile Arg Phe Ser Tyr Pro Ser
100 105 110
Ile His Pro Phe Ile Leu Ile Trp Gly Asn Lys Lys Leu Lys Gln Thr
115 120 125
Phe Leu Ser Val Leu Arg Gln Val Arg Tyr Trp Val Lys Gly Glu Lys
130 135 140
Pro Ser Ser Pro
145

<210> 1288
<211> 55
<212> PRT
<213> Homo sapiens

<400> 1288
Asn Glu Arg Val Leu Thr Tyr Ser Leu Ile Gly Ser Ser Ile Ile Arg
1 5 10 15
Lys Lys Cys Thr Val Leu Phe Thr Ala Lys Phe Tyr Leu Thr Val Leu
20 25 30
Ile Leu Gly Val Met Lys Phe Lys Gln Cys Asp Leu Asn Leu Lys Lys
35 40 45
Lys Lys Lys Lys Gly Arg Pro


```
<220>  
<221> SITE  
<222> (200)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu
1 5 10 15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu
20 25 30

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu
35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
50 55 60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys
65 70 75 80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln
85 90 95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
100 105 110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala-Val
115 120 125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
130 135 140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
145 150 155 160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val
165 170 175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu
180 185 190

Pro Lys Ala Ser Glu Gln Ala Xaa Leu Pro Arg Cys Arg Gln Val Gly
195 200 205

Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp
210 215 220

Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro
225 230 235 240

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' is a 2x2 grid of images. The 'Response' is a 2x2 grid of images. The 'Reaction time' is a 2x2 grid of images. The 'Stimulus' and 'Response' are labeled 'Stimulus' and 'Response' respectively. The 'Reaction time' is labeled 'Reaction time'.

Gly

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu
1 5 10 15

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu
35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
50 55 60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys
65 70 75 80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln
85 90 95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
100 105 110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val
115 120 125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
130 135 140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
145 150 155 160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val
165 170 175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu
180 185 190

Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly
195 200 205

Asp Arg Gly Lys Pro Cys Val Cys Xaa Tyr Gly Leu Ser Leu Ala Trp
 210 215 220

Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro
 225 230 235 240

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe
 245 250 255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro
 260 265 270

Gly

<210> 1291

<211> 934

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (596)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (852)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1291

Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu
 1 5 10 15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly
 20 25 30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys
 35 40 45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser
 50 55 60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile
 65 70 75 80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu
 85 90 95

Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys
 100 105 110

Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser
115 120 125

Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala
130 135 140

Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg
145 150 155 160

Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu
165 170 175

Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly
180 185 190

Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro
195 200 205

His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr
210 215 220

Xaa Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser
225 230 235 240

Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser
245 250 255

Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr
260 265 270

Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu
275 280 285

Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser
290 295 300

Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr
305 310 315 320

Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp
325 330 335

Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp
340 345 350

Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly
355 360 365

Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys
370 375 380

Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile
385 390 395 400

Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn
405 410 415

Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp
420 425 430

Pro	Asn	Gly	Lys	Thr	Cys	Ser	Arg	Val	Asp	His	Cys	Ala	Gln	Gln	Asp	
		435						440							445	
His	Gly	Cys	Glu	Gln	Leu	Cys	Leu	Asn	Thr	Glu	Asp	Ser	Phe	Val	Cys	
	450					455					460					
Gln	Cys	Ser	Glu	Gly	Phe	Leu	Ile	Asn	Glu	Asp	Leu	Lys	Thr	Cys	Ser	
465					470					475						480
Arg	Val	Asp	Tyr	Cys	Leu	Leu	Ser	Asp	His	Gly	Cys	Glu	Tyr	Ser	Cys	
				485					490						495	
Val	Asn	Met	Asp	Arg	Ser	Phe	Ala	Cys	Gln	Cys	Pro	Glu	Gly	His	Val	
			500					505						510		
Leu	Arg	Ser	Asp	Gly	Lys	Thr	Cys	Ala	Lys	Leu	Asp	Ser	Cys	Ala	Leu	
		515					520					525				
Gly	Asp	His	Gly	Cys	Glu	His	Ser	Cys	Val	Ser	Ser	Glu	Asp	Ser	Phe	
	530					535					540					
Val	Cys	Gln	Cys	Phe	Glu	Gly	Tyr	Ile	Leu	Arg	Glu	Asp	Gly	Lys	Thr	
545					550					555						560
Cys	Arg	Arg	Lys	Asp	Val	Cys	Gln	Ala	Ile	Asp	His	Gly	Cys	Glu	His	
				565					570					575		
Ile	Cys	Val	Asn	Ser	Asp	Asp	Ser	Tyr	Thr	Cys	Glu	Cys	Leu	Glu	Gly	
			580					585					590			
Phe	Arg	Leu	Xaa	Glu	Asp	Gly	Lys	Arg	Cys	Arg	Arg	Lys	Asp	Val	Cys	
		595					600					605				
Lys	Ser	Thr	His	His	Gly	Cys	Glu	His	Ile	Cys	Val	Asn	Asn	Gly	Asn	
	610					615					620					
Ser	Tyr	Ile	Cys	Lys	Cys	Ser	Glu	Gly	Phe	Val	Leu	Ala	Glu	Asp	Gly	
625					630					635					640	
Arg	Arg	Cys	Lys	Lys	Cys	Thr	Glu	Gly	Pro	Ile	Asp	Leu	Val	Phe	Val	
				645					650					655		
Ile	Asp	Gly	Ser	Lys	Ser	Leu	Gly	Glu	Glu	Asn	Phe	Glu	Val	Val	Lys	
			660					665					670			
Gln	Phe	Val	Thr	Gly	Ile	Ile	Asp	Ser	Leu	Thr	Ile	Ser	Pro	Lys	Ala	
		675					680					685				
Ala	Arg	Val	Gly	Leu	Leu	Gln	Tyr	Ser	Thr	Gln	Val	His	Thr	Glu	Phe	
		690				695					700					
Thr	Leu	Arg	Asn	Phe	Asn	Ser	Ala	Lys	Asp	Met	Lys	Lys	Ala	Val	Ala	
705					710					715					720	
His	Met	Lys	Tyr	Met	Gly	Lys	Gly	Ser	Met	Thr	Gly	Leu	Ala	Leu	Lys	
				725					730					735		
His	Met	Phe	Glu	Arg	Ser	Phe	Thr	Gln	Gly	Glu	Gly	Ala	Arg	Pro	Leu	
			740					745					750			

[illegible]

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<210> 1292
<211> 794
<212> PRT
<213> Homo sapiens
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Met. Leu. A

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly
20 25 30

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser
50 55 60

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu

405					410					415					
Met	Glu	Glu	Ser	Tyr	Tyr	Cys	Arg	Cys	His	Arg	Gly	Tyr	Thr	Leu	Asp
			420					425					430		
Pro	Asn	Gly	Lys	Thr	Cys	Ser	Arg	Val	Asp	His	Cys	Ala	Gln	Gln	Asp
		435					440					445			
His	Gly	Cys	Glu	Gln	Leu	Cys	Leu	Asn	Thr	Glu	Asp	Ser	Phe	Val	Cys
	450					455					460				
Gln	Cys	Ser	Glu	Gly	Phe	Leu	Ile	Asn	Glu	Asp	Leu	Lys	Thr	Cys	Ser
465						470					475				480
Arg	Val	Asp	Tyr	Cys	Leu	Leu	Ser	Asp	His	Gly	Cys	Glu	Tyr	Ser	Cys
				485					490					495	
Val	Asn	Met	Asp	Arg	Ser	Phe	Ala	Cys	Gln	Cys	Pro	Glu	Gly	His	Val
			500					505					510		
Leu	Arg	Ser	Asp	Gly	Lys	Thr	Cys	Ala	Lys	Leu	Asp	Ser	Cys	Ala	Leu
		515					520					525			
Gly	Asp	His	Gly	Cys	Glu	His	Ser	Cys	Val	Ser	Ser	Glu	Asp	Ser	Phe
	530					535					540				
Val	Cys	Gln	Cys	Phe	Glu	Gly	Tyr	Ile	Leu	Arg	Glu	Asp	Gly	Lys	Thr
545						550					555				560
Cys	Arg	Arg	Lys	Asp	Val	Cys	Gln	Ala	Ile	Asp	His	Gly	Cys	Glu	His
				565					570					575	
Ile	Cys	Val	Asn	Ser	Asp	Asp	Ser	Tyr	Thr	Cys	Glu	Cys	Leu	Glu	Gly
			580					585					590		
Phe	Arg	Leu	Ala	Glu	Asp	Gly	Lys	Arg	Cys	Arg	Arg	Lys	Asp	Val	Cys
		595					600					605			
Lys	Ser	Thr	His	His	Gly	Cys	Glu	His	Ile	Cys	Val	Asn	Asn	Gly	Asn
	610					615					620				
Ser	Tyr	Ile	Cys	Lys	Cys	Ser	Glu	Gly	Phe	Val	Leu	Ala	Glu	Asp	Gly
625						630					635				640
Arg	Arg	Cys	Lys	Lys	Cys	Thr	Glu	Gly	Pro	Ile	Asp	Leu	Val	Phe	Val
				645					650					655	
Ile	Asp	Gly	Ser	Lys	Ser	Leu	Gly	Glu	Glu	Asn	Phe	Glu	Val	Val	Lys
			660					665					670		
Gln	Phe	Val	Thr	Gly	Ile	Ile	Asp	Ser	Leu	Thr	Ile	Ser	Pro	Lys	Ala
		675					680					685			
Ala	Arg	Val	Gly	Leu	Leu	Gln	Tyr	Ser	Thr	Gln	Val	His	Thr	Glu	Phe
		690				695					700				
Thr	Leu	Arg	Asn	Phe	Asn	Ser	Ala	Lys	Asp	Met	Lys	Lys	Ala	Val	Ala
705						710					715				720
His	Met	Lys	Tyr	Met	Gly	Lys	Gly	Ser	Met	Thr	Gly	Leu	Ala	Leu	Lys

735

Tyr Val Cys Cys Trp Gly Arg Lys Ser His
785 790

Asn Arg Met Val Gly Gly Gln
35

Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu Ser
100 105 110

Figure 1 is a schematic representation of the experimental design. It shows a vertical timeline of events for two groups: 'Control' and 'Experimental'. The timeline starts with 'Baseline' and ends with 'Post-test'. The 'Control' group receives 'Baseline', 'Training', and 'Post-test'. The 'Experimental' group receives 'Baseline', 'Training', 'Post-test', and 'Follow-up'. The 'Training' phase is divided into 'Pre-training', 'Training', and 'Post-training' sub-phases. The 'Post-training' phase is further divided into 'Pre-test', 'Test', and 'Post-test' sub-phases. The 'Follow-up' phase is also divided into 'Pre-test', 'Test', and 'Post-test' sub-phases.

Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu Val
 115 120 125
 Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val Cys
 130 135 140
 Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp Val
 145 150 155 160
 Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro Arg
 165 170 175
 Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys Asn
 180 185 190
 Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr Ile
 195 200 205
 Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp Ala
 210 215 220
 Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln Ser
 225 230 235 240
 Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg Gln
 245 250 255
 Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp Ile
 260 265 270
 His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly Gly
 275 280 285
 Gln Lys
 290

<210> 1295
 <211> 144
 <212> PRT
 <213> Homo sapiens

 <220>
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 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1295
 Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp

Leu Val Met Leu Thr Gln Arg Ile Gly Lys Ser Ala Asn Glu Phe Gln
165 170 175

Thr Thr Glu Gly Val Ser Pro Glu Ala Val Phe Leu Leu Gly Lys Asp
180 185 190

Leu Asn Ser Phe Lys Glu Ile Ala Arg Gly Met Leu Asp Gly Ser Ala
195 200 205

Asp Leu Arg Leu Ala Ala Thr Arg Asp Ala Gln Thr Arg Glu Gln Leu
210 215 220

Glu Ser Leu Ile Lys Leu Tyr Glu Gln Thr Arg Thr Gln Ala Gly Ala
225 230 235 240

Ile Leu Gly Asn Leu Gln Gly Leu Val Ser Ala Arg Glu Ala Gln Ser
245 250 255

Ala Ile Leu Ala Asp Ser Glu Pro Leu Arg Arg Gln Leu Glu Gly Leu
260 265 270

Gln Ser Lys Leu Ser Ala Gln Ser Gly Met Gly Ala Ala Ser Ser Leu
275 280 285

Arg Ser Pro Ser Pro Val Ser Ser Ser Cys Cys Ala Ala Trp Val Phe
290 295 300

Arg Ala Cys Ser Cys Trp Thr Ala Ala Ala Ala Lys Pro Arg Pro Lys
305 310 315 320

His Ser Ser Val Met Pro Ser Ala Arg Asn Arg Lys Pro Ser Ala Ser
325 330 335

Thr Thr Pro Thr Arg Arg Pro Phe Cys Asp
340 345

<210> 1298
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1298
Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala
1 5 10 15

Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln
20 25

<210> 1299
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1299
Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99

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<400> 1301
Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile
  1              5              10              15

Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
      20              25              30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
      35              40              45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
      50              55              60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
  65              70              75              80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
      85              90              95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
      100              105              110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val
      115              120              125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr
      130              135              140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
  145              150              155              160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn
      165              170              175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
      180              185              190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
      195              200              205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
  210              215              220

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Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
 225 230 235 240
 Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
 245 250 255
 Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
 260 265 270
 Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
 275 280 285
 Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
 290 295

<210> 1302
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1302
 Ala Arg Ala Lys Pro Glu Arg Pro Ala Gly Trp Ala Glu Ser Val Leu
 1 5 10 15
 Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala Phe Ser Arg Thr Val Gly
 20 25 30
 Thr Ile Gln His Cys Leu His Leu Thr Ser Val Tyr Thr His Phe Leu
 35 40 45
 Pro Gln Arg Gly Arg Pro Glu Val Thr Thr Met Pro Leu Gly Leu Gly
 50 55 60
 Met Thr Val Asp Tyr Ile Phe Phe Ser Ala Glu Ser Cys Glu Asn Gly
 65 70 75 80
 Asn Arg Thr Asp His Arg Leu Tyr Arg Asp Gly Thr Leu Lys Leu Leu
 85 90 95
 Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile Leu Trp Ala Ala Asn Gly
 100 105 110
 Leu Pro Asn Pro Phe Cys Ser Ser Asp His Leu Cys Leu Leu Ala Ser
 115 120 125
 Phe Gly Met Glu Val Thr Ala Pro
 130 135

<210> 1303
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (22)

<221> SITE

<223> Xaa

<220>

<222> (92)

 $\langle 220 \rangle$

<222> (95)

<400> 1303

Phe Arg Ala Leu Ser Xaa Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
20 25 30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
35 40 45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
50 55 60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
65 70 75 80

Leu Ile Xaa Lys Gly Leu Ala Gln Ser Ser Leu Xaa Leu Leu Xaa Asp
85 90 95

Asn Pro Gly Glu
100

<211> 670

<212> PRT

<213> Homo sapiens

<400> 1304

Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
1 5 10 15

Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
20 25 30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
35 40 45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp.
50 55 60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro

65		70		75		80
Leu Ile Asp Lys Gly	Leu Ala Gln Ser Ser	Leu Ala Leu Leu Met Asp				
	85		90			95
Asn Pro Gly Glu Glu	Asn Ala Ala Ser Glu	Asp Arg Trp Ser Ser Arg				
	100		105			110
Gln Leu Ser Asp Leu	Arg Ala Ala Glu Asn	Leu Asp Glu Pro Phe Pro				
	115		120			125
Glu Met Leu Gly Glu	Glu Pro Leu Leu Glu	Val Glu Gly Val Glu Gly				
	130		135			140
Ser Met Trp Ala Ala	Ile Pro Met Gln Ser	Glu Pro Gln Tyr Ala Asp				
	145		150			155
Cys Ala Ala Leu Pro	Val Gly Ala Leu Ala	Thr Glu Gln Trp Glu Glu				
	165		170			175
Asp Pro Ala Val Leu	Ala Trp Ser Ile Ala	Pro Glu Pro Val Pro Gln				
	180		185			190
Glu Glu Ala Ser Ile	Trp Pro Phe Glu Gly	Leu Gly Gln Leu Gln Pro				
	195		200			205
Pro Ala Val Glu Ile	Pro Tyr His Glu Ile	Leu Trp Arg Glu Trp Glu				
	210		215			220
Asp Phe Ser Thr Gln	Pro Asp Ala Gln Gly	Leu Lys Ala Gly Asp Gly				
	225		230			235
Pro Gln Phe Gln Phe	Thr Leu Met Ser Tyr	Asn Ile Leu Ala Gln Asp				
	245		250			255
Leu Met Gln Gln Ser	Ser Glu Leu Tyr Leu	His Cys His Pro Asp Ile				
	260		265			270
Leu Asn Trp Asn Tyr	Arg Phe Val Asn Leu	Met Gln Glu Phe Gln His				
	275		280			285
Trp Asp Pro Asp Ile	Leu Cys Leu Gln Glu	Val Gln Glu Asp His Tyr				
	290		295			300
Trp Glu Gln Leu Glu	Pro Ser Leu Arg Met	Met Gly Phe Thr Cys Phe				
	305		310			315
Tyr Lys Arg Arg Thr	Gly Cys Lys Thr Asp	Gly Cys Ala Val Cys Tyr				
	325		330			335
Lys Pro Thr Arg Phe	Arg Leu Leu Cys Ala	Ser Pro Val Glu Tyr Phe				
	340		345			350
Arg Pro Gly Leu Glu	Leu Leu Asn Arg Asp	Asn Val Gly Leu Val Leu				
	355		360			365
Leu Leu Gln Pro Leu	Val Pro Glu Gly Leu	Gly Gln Val Ser Val Ala				
	370		375			380
Pro Leu Cys Val Ala	Asn Thr His Ile Leu	Tyr Asn Pro Arg Arg Gly				

385		390		395		400
Asp Val Lys Leu Ala Gln Met Ala Ile Leu Leu Ala Glu Val Asp Lys						
	405			410		415
Val Ala Arg Leu Ser Asp Gly Ser His Cys Pro Ile Ile Leu Cys Gly						
	420		425			430
Asp Leu Asn Ser Val Pro Asp Ser Pro Leu Tyr Asn Phe Ile Arg Asp						
	435		440			445
Gly Glu Leu Gln Tyr His Gly Met Pro Ala Trp Lys Val Ser Gly Gln						
	450		455			460
Glu Asp Phe Ser His Gln Leu Tyr Gln Arg Lys Leu Gln Ala Pro Leu						
465		470		475		480
Trp Pro Ser Ser Leu Gly Ile Thr Asp Cys Cys Gln Tyr Val Thr Ser						
	485		490			495
Cys His Pro Lys Arg Ser Glu Arg Arg Lys Tyr Gly Arg Asp Phe Leu						
	500		505			510
Leu Arg Phe Arg Phe Cys Ser Ile Ala Cys Gln Arg Pro Val Gly Leu						
	515		520			525
Val Leu Met Glu Gly Val Thr Asp Thr Lys Pro Glu Arg Pro Ala Gly						
	530		535			540
Trp Ala Glu Ser Val Leu Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala						
545		550		555		560
Phe Ser Arg Thr Val Gly Thr Ile Gln His Cys Leu His Leu Thr Ser						
	565		570			575
Val Tyr Thr His Phe Leu Pro Gln Arg Gly Arg Pro Glu Val Thr Thr						
	580		585			590
Met Pro Leu Gly Leu Gly Met Thr Val Asp Tyr Ile Phe Phe Ser Ala						
	595		600			605
Glu Ser Cys Glu Asn Gly Asn Arg Thr Asp His Arg Leu Tyr Arg Asp						
	610		615			620
Gly Thr Leu Lys Leu Leu Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile						
625		630		635		640
Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His						
	645		650			655
Leu Cys Leu Leu Ala Ser Phe Gly Met Glu Val Thr Ala Pro						
	660		665			670

<210> 1305
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1305
 Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val
 1 5 10 15
 Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val
 20 25 30
 Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly
 35 40 45
 Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
 50 55 60
 Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys
 65 70 75 80
 Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile
 85 90 95
 Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His
 100 105 110
 Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala
 115 120 125
 Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr
 130 135 140
 Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr
 145 150 155 160
 Leu Cys Arg Xaa Ser Leu Xaa Leu Leu Leu Glu Ala Tyr Phe Cys Gly
 165 170 175
 Lys Val Gly Arg Asn Asn His Lys Phe Ile Ser Gln Leu Met Cys Asp

[illegible]

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<210> 1306
<211> 170
<212> PRT
<213> Homo sapiens
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Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val
20 25 30

Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
50 55 60

Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys
65 70 75 80

Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile
85 90 95

Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His
100 105 110

Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala
115 120 125

Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr
130 135 140

Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr
145 150 155 160

Leu Cys Arg Ser Ser Leu Glu Ser Val Ser
165 170

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<210> 1307
<211> 149
<212> PRT
<213> Homo sapiens
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<220>

<221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1307
 Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
 1 5 10 15
 Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu
 20 25 30
 Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg
 35 40 45
 Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu
 50 55 60
 Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg
 65 70 75 80
 Tyr Arg Pro Gln Pro Gly Xaa Glu Gly Pro Gly Arg Thr Pro Xaa Ser
 85 90 95
 Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Xaa Tyr Glu Thr Leu Lys
 100 105 110
 Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu
 115 120 125
 Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Leu
 130 135 140
 Arg Trp Met Leu Glu
 145

<210> 1308
 <211> 360
 <212> PRT
 <213> Homo sapiens

<400> 1308
 Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
 1 5 10 15
 Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu
 20 25 30
 Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg

35					40					45					
Asp	Cys	Tyr	Glu	Val	Leu	Gly	Val	Ser	Arg	Ser	Ala	Gly	Lys	Ala	Glu
50						55					60				
Ile	Ala	Arg	Ala	Tyr	Arg	Gln	Leu	Ala	Arg	Arg	Tyr	His	Pro	Asp	Arg
65					70					75					80
Tyr	Arg	Pro	Gln	Pro	Gly	Asp	Glu	Gly	Pro	Gly	Arg	Thr	Pro	Gln	Ser
				85					90					95	
Ala	Glu	Glu	Ala	Phe	Leu	Leu	Val	Ala	Thr	Ala	Tyr	Glu	Thr	Leu	Lys
			100					105					110		
Asp	Glu	Glu	Thr	Arg	Lys	Asp	Tyr	Asp	Tyr	Met	Leu	Asp	His	Pro	Glu
	115						120					125			
Glu	Tyr	Tyr	Ser	His	Tyr	Tyr	His	Tyr	Tyr	Ser	Arg	Arg	Leu	Ala	Pro
130					135						140				
Lys	Val	Asp	Val	Arg	Val	Val	Ile	Leu	Val	Ser	Val	Cys	Ala	Ile	Ser
145					150					155					160
Val	Phe	Gln	Phe	Phe	Ser	Trp	Trp	Asn	Ser	Tyr	Asn	Lys	Ala	Ile	Ser
				165					170					175	
Tyr	Leu	Ala	Thr	Val	Pro	Lys	Tyr	Arg	Ile	Gln	Ala	Thr	Glu	Ile	Ala
			180					185					190		
Lys	Gln	Gln	Gly	Leu	Leu	Lys	Lys	Ala	Lys	Glu	Lys	Gly	Lys	Asn	Lys
	195						200					205			
Lys	Ser	Lys	Glu	Glu	Ile	Arg	Asp	Glu	Glu	Glu	Asn	Ile	Ile	Lys	Asn
	210					215					220				
Ile	Ile	Lys	Ser	Lys	Ile	Asp	Ile	Lys	Gly	Gly	Tyr	Gln	Lys	Pro	Gln
225					230					235					240
Ile	Cys	Asp	Leu	Leu	Leu	Phe	Gln	Ile	Ile	Leu	Ala	Pro	Phe	His	Leu
			245						250					255	
Cys	Ser	Tyr	Ile	Val	Trp	Tyr	Cys	Arg	Trp	Ile	Tyr	Asn	Phe	Asn	Ile
			260					265					270		
Lys	Gly	Lys	Glu	Tyr	Gly	Glu	Glu	Glu	Arg	Leu	Tyr	Ile	Ile	Arg	Lys
	275					280						285			
Ser	Met	Lys	Met	Ser	Lys	Ser	Gln	Phe	Asp	Ser	Leu	Glu	Asp	His	Gln
	290					295					300				
Lys	Glu	Thr	Phe	Leu	Lys	Arg	Glu	Leu	Trp	Ile	Lys	Glu	Asn	Tyr	Glu
305					310					315					320
Val	Tyr	Lys	Gln	Glu	Gln	Glu	Glu	Glu	Leu	Lys	Lys	Lys	Leu	Ala	Asn
			325						330					335	
Asp	Pro	Arg	Trp	Lys	Arg	Tyr	Arg	Arg	Trp	Met	Lys	Asn	Glu	Gly	Pro
			340					345					350		
Gly	Arg	Leu	Thr	Phe	Val	Asp	Asp								


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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1309																
Met	Glu	Ser	His	Leu	Ser	Thr	Trp	Pro	Cys	His	Pro	Ser	Cys	Cys	Leu	
1				5					10					15		
Phe	Leu	Ile	Leu	Leu	Phe	Pro	Ser	His	Pro	Thr	Ser	Met	Thr	Lys	Ser	
			20					25					30			
Lys	Ala	Arg	Leu	Pro	His	Leu	Glu	Asn	Cys	Ser	Gln	Asn	Asp	Thr	Ser	
		35					40					45				
Lys	Pro	Leu	Gly	Gln	Ala	Arg	Pro	Pro	Ser	Ser	Pro	Thr	Arg	Thr	Thr	
	50					55					60					
Asp	Leu	Thr	Thr	Gly	Pro	Thr	Ser	Ser	Pro	Ala	Pro	Leu	Gly	Ile	Leu	
65					70					75					80	
His	Thr	Ala	Val	Arg	Val	Thr	His	Leu	His	Thr	Leu	Thr	Leu	Met	Gly	
				85					90					95		
Glu	Glu	Lys	Ala	Val	Phe	Val	Ala	Arg	Ala	Gln	Val	Gly	Asn	Leu	Gly	
			100					105					110			
Leu	Val	Phe	Arg	Lys	Ala	Arg	Gly	Ser	Xaa	Phe	Pro	Thr	Leu	Gly	Arg	
			115				120					125				

```

<400> 1310
Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu
 1             5             10             15
Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser
      20             25             30
Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser
      35             40             45
Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr

```


60

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Thr Leu Ala
100 105 110

<213> Homo sapiens

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
100 105

<213> Homo sapiens

Val Leu Asn Gly Arg Thr Ser Lys Ser Glu Ala Thr Val Pro Thr Thr
35 40 45

Arg Gly Leu Leu Tyr Cys Ser Thr Phe Ser Ala Leu Tyr Phe Leu Ala
 50 55 60

Glu Ala Ser Pro Trp Ser Ala Met Tyr Lys Leu Gly Tyr
 65 70 75

<210> 1313
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1313
 Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly
 1 5 10 15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe
 20 25 30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala
 35 40 45

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn
 50 55 60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile
 65 70 75 80

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Trp Tyr Gly
 85 90 95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
 100 105

<210> 1314
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Met Ser Ala Gly Gly Ala Ser Val Pro Pro Pro Pro Asn Pro Ala Val
 1 5 10 15

Ser Phe Pro Pro Pro Arg Val Thr Leu Pro Ala Gly Pro Asp Ile Leu
 20 25 30

Arg Thr Tyr Ser Gly Ala Phe Val Cys Leu Glu Ile Leu Phe Gly Gly
 35 40 45

Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu
 50 55 60

Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu
 65 70 75 80

Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala
 85 90 95

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in both studies involves 'Participants' and 'Conditions'. The 'Conditions' are 'Control' and 'Intervention'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'.

<211> 103

<212> PRT

<213> Homo sapiens

Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe
1 5 10 15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile
20 25 30

Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg
35 40 45

Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln
50 55 60

Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu
65 70 75 80

Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Lys Pro Pro Val
85 90 95

Leu His Met Leu Lys Pro Pro
100

<211> 237

<212> PRT

<213> Homo sapiens

Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe
1 5 10 15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile

30

Glu Asp Asp Glu Gly Ala Pro Cys Pro Ala Leu Phe Leu
225 230 235

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<211> 380

<212> PRT

<213> Homo sapiens

Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu
1 5 10 15

Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg
20 25 30

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly
35 40 45

Ala Pro Ala Ala Pro Ser Pro Pro Ala Leu Glu Leu Ala Arg Gly Ser
50 55 60

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly
65 70 75 80

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Glu
85 90 95

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu
100 105 110

Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe
115 120 125

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu
130 135 140

Leu Leu Pro Pro Ala Ala Gly Phe Lys Cys Lys Val Ile Phe His Asp
145 150 155 160

Val Ala Val Leu Thr Asp Lys Leu Phe Pro Ile Val Glu Ala Met Gln
165 170 175

Arg Arg Leu Asn Asn Leu Ile Cys Phe
65 70

<210> 1321
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1321
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
1 5 10 15
Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30
Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro
35 40 45
Gly Arg Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg
50 55 60
Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile
65 70 75 80
Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg
85 90 95

<210> 1322
<211> 234
<212> PRT
<213> Homo sapiens

<400> 1322
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
1 5 10 15
Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
20 25 30
Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro
35 40 45
Arg Lys Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala
50 55 60
Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Asp Ile Glu Glu Gly Asp
65 70 75 80
Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile
85 90 95
Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys
100 105 110
Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu
115 120 125

<210> 1325
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1325
 Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Leu Phe
 1 5 10 15

<210> 1326
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (209)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1326
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15

 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30

 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala
 165 170 175
 Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys
 180 185 190
 Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu
 195 200 205
 Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu
 210 215 220
 Pro Phe Thr Asn
 225

<210> 1327
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1327
 Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser
 1 5 10 15
 Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr
 20 25 30
 Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe
 35 40 45
 Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser
 50 55 60
 Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu
 65 70 75 80

[illegible]

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<400> 1328
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
  1             5             10             15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
             20             25             30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
      35             40             45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
      50             55             60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
      65             70             75             80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
             85             90             95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
      100             105             110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
      115             120             125

Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
      130             135             140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
      145             150             155             160

Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro
             165             170

```

```

<400> 1329
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1             5             10             15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
          20             25             30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
          35             40             45

```


Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro
100 105 110

Ala Gln Ser
115

<210> 1330
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1330
Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys
1 5 10 15

Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu
20 25 30

Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu
35 40 45

Gly Ser Ser Asn Pro Xaa Thr Xaa Ala Pro Lys
50 55

<210> 1331
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1331
Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys
1 5 10 15

Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu
20 25 30

Arg Thr Val

<210> 1334

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1334

Ala Leu Ala Arg Ala Ser Arg Thr Asp Asp Leu His Pro Leu Ala Leu
1 5 10 15

Ala Gly Ala Thr His Arg Pro Cys Pro Glu Asp Gln Glu Pro Lys Ala
20 25 30

Gly Arg Ala Trp Ser Ala Thr Ser Phe Cys Leu Pro Val Pro Cys Gly
35 40 45

Val Ser Val Leu Leu Ser Leu Ser Leu Phe Leu Ser Leu Cys Gly Tyr
50 55 60

Val Ser Cys Tyr Phe Ser Leu Ser Cys Ser Tyr Leu Cys Leu Gly His
65 70 75 80

Leu His Pro Val Val Thr Gln Gly Cys His Thr Leu Gly Phe Ser Gly
85 90 95

Gly Asp Ser Thr Gly Ala Thr Cys Leu His Pro Arg Leu Ala Val Ser
100 105 110

Ala Cys Gln Ser Pro Cys Leu Ser Leu Cys Leu Ser Leu Cys Leu Ser
115 120 125

His Trp Gln Gly Cys Gly Val Lys Thr Asp Leu Cys Ile Phe Ile Asn
130 135 140

Leu Gly Gly Leu Pro Gly Gly Gly Lys Thr Gly Phe Ser Lys Gly Gln
145 150 155 160

Glu Arg Thr

<210> 1335

<211> 552

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1335

Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr
1 5 10 15

[illegible]

Leu Gln Leu Ala Asp Ser Glu Ser Ala Ile Arg Leu Leu Ala Ala Ser
340 345 350

Leu Arg Leu Arg Ala Arg Trp Glu Ser Ala Leu Asp Arg Gln Leu Ala
355 360 365

His Gln Ala Gln Gln Gln Leu Glu Glu Glu Glu Glu Asp Thr Pro Val
370 375 380

Ser Pro Lys Glu Val Ala Thr Leu Ser Lys Glu Leu Leu Gln Phe Thr
385 390 395 400

Ala Ser Lys Ile Pro Tyr Ser Leu Arg Arg Leu Thr Gly Leu Glu Val
405 410 415

Gln Asn Met Tyr Val Gly Pro Gln Thr Ile Pro Ala Thr Pro His Leu
420 425 430

Pro Gly Leu Phe Gly Ser Ser Thr Leu Ser Pro His Pro Thr Lys Gly
435 440 445

Gly Tyr Ala Val Thr Asp Phe Leu Thr Tyr Asn Cys Leu Thr Asn Asp
450 455 460

Thr Asp Leu Tyr Ser Asp Cys Leu Arg Thr Phe Trp Thr Cys Pro His
465 470 475 480

Cys Gly Leu His Ala Pro Leu Thr Pro Leu Glu Arg Ile Ala His Glu
485 490 495

Asn Thr Cys Pro Gln Ala Pro Gln Asp Gly Pro Pro Gly Ala Glu Glu
500 505 510

Ala Ala Leu Glu Thr Leu Gln Lys Thr Ser Val Leu Gln Arg Pro Tyr
515 520 525

His Cys Glu Ala Cys Gly Lys Asp Phe Leu Phe Thr Pro Thr Glu Val
530 535 540

Leu Arg His Arg Lys Gln His Val
545 550

<210> 1336

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1336

Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg
1 5 10 15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser
20 25 30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu
35 40 45

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp
1 5 10 15

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu
35 40 45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr
50 55 60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr
65 70 75 80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr
85 90 95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr
100 105 110

Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln
115 120 125

Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Cys
130 135 140

Thr Asp Asp Ser Ser Glu Glu Ala Lys Thr Leu Thr Met Asp Ile Leu
145 150 155 160

Thr Leu Ala His Thr Ser Thr Glu Ala Lys Gly Leu Ser Ser Glu Ser
165 170 175

Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala
180 185 190

Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro
195 200 205

Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val
210 215 220

Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro
 225 230 235 240

His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser
245 250 255

Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser
260 265 270

Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Trp Ser Pro

<210> 1341
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1341

```
Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
 1           5           10           15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
      20           25           30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
      35           40           45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
      50           55           60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
      65           70           75           80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
      85           90           95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
      100           105           110

Thr Glu
```

<210> 1342
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1342

```
Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
 1           5           10           15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
      20           25           30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
      35           40           45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
      50           55           60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
      65           70           75           80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
      85           90           95
```


[illegible]

```
<210> 1343
<211> 114
<212> PRT
<213> Homo sapiens
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Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
1 5 10 15

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
35 40 45

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
65 70 75 80

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
100 105 110

```
<210> 1344
<211> 465
<212> PRT
<213> Homo sapiens
```

Met Glu Glu Glu Asp Glu Glu Ala Arg Ala Leu Leu Ala Gly Gly Pro
1 5 10 15

Leu Cys Asp Pro Ser Arg Leu Ala His Arg Leu Leu Val Leu Leu Leu
35 40 45

Ala Leu Gln Thr Gln Val Lys Arg Asp Met Gln Val Asn Thr Thr Lys
65 70 75 80

Phe	Met	Leu	Leu	Tyr	Ala	Trp	Tyr	Ser	Trp	Pro	Asn	Val	Val	Leu	Cys	
				85					90						95	
Phe	Phe	Gly	Gly	Phe	Leu	Ile	Asp	Arg	Val	Phe	Gly	Ile	Arg	Trp	Gly	
			100					105					110			
Thr	Ile	Ile	Phe	Ser	Cys	Phe	Val	Cys	Ile	Gly	Gln	Val	Val	Phe	Ala	
		115					120					125				
Leu	Gly	Gly	Ile	Phe	Asn	Ala	Phe	Trp	Leu	Met	Glu	Phe	Gly	Arg	Phe	
	130					135					140					
Val	Phe	Gly	Ile	Gly	Gly	Glu	Ser	Leu	Ala	Val	Ala	Gln	Asn	Thr	Tyr	
145					150					155					160	
Ala	Val	Ser	Trp	Phe	Lys	Gly	Lys	Glu	Leu	Asn	Leu	Val	Phe	Gly	Leu	
				165					170						175	
Gln	Leu	Ser	Met	Ala	Arg	Ile	Gly	Ser	Thr	Val	Asn	Met	Asn	Leu	Met	
			180					185					190			
Gly	Trp	Leu	Tyr	Ser	Lys	Ile	Glu	Ala	Leu	Leu	Gly	Ser	Ala	Gly	His	
		195					200					205				
Thr	Thr	Leu	Gly	Ile	Thr	Leu	Met	Ile	Gly	Gly	Ile	Thr	Cys	Ile	Leu	
	210					215					220					
Ser	Leu	Ile	Cys	Ala	Leu	Ala	Leu	Ala	Tyr	Leu	Asp	Gln	Arg	Ala	Glu	
225					230					235					240	
Arg	Ile	Leu	His	Lys	Glu	Gln	Gly	Lys	Thr	Gly	Glu	Val	Ile	Lys	Leu	
				245					250					255		
Thr	Asp	Val	Lys	Asp	Phe	Ser	Leu	Pro	Leu	Trp	Leu	Ile	Phe	Ile	Ile	
			260					265					270			
Cys	Val	Cys	Tyr	Tyr	Val	Ala	Val	Phe	Pro	Phe	Ile	Gly	Leu	Gly	Lys	
		275					280					285				
Val	Phe	Phe	Thr	Glu	Lys	Phe	Gly	Phe	Ser	Ser	Gln	Ala	Ala	Ser	Ala	
		290				295					300					
Ile	Asn	Ser	Val	Val	Tyr	Val	Ile	Ser	Ala	Pro	Met	Ser	Pro	Val	Phe	
305					310					315					320	
Gly	Leu	Leu	Val	Asp	Lys	Thr	Gly	Lys	Asn	Ile	Ile	Trp	Val	Leu	Cys	
				325					330					335		
Ala	Val	Ala	Ala	Thr	Leu	Val	Ser	His	Met	Met	Leu	Ala	Phe	Thr	Met	
			340					345					350			
Trp	Asn	Pro	Trp	Ile	Ala	Met	Cys	Leu	Leu	Gly	Leu	Ser	Tyr	Ser	Leu	
		355					360					365				
Leu	Ala	Cys	Ala	Leu	Trp	Pro	Met	Val	Ala	Phe	Val	Val	Pro	Glu	His	
	370					375					380					
Gln	Leu	Gly	Thr	Ala	Tyr	Gly	Phe	Met	Gln	Ser	Ile	Gln	Asn	Leu	Gly	
385					390					395					400	

60

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<210> 1347
<211> 83
<212> PRT
<213> Homo sapiens
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Ile Trp Leu

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<210> 1348
<211> 111
<212> PRT
<213> Homo sapiens
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Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg
100 105 110

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in both studies involves 'Participants' and 'Conditions'. The 'Conditions' are 'Control' and 'Intervention'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'.

Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser
1 5 10 15

Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr
35 40 45

Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr
50 55 60

Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Leu Pro Ala
65 70 75 80

Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr
85 90 95

Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg
100 105 110

<211> 230

<212> PRT

<213> Homo sapiens

Met Ser Cys Ser Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met
1 5 10 15

Leu Phe Lys Asn Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu
20 25 30

Leu Phe Thr Val Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro
35 40 45

Ile Phe Ile Leu Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val
50 55 60

Phe Ile Gly Tyr Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser
65 70 75 80

Phe Leu Gly Ile Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met
85 90 95

Ala Phe Ile Gly Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala
100 105 110

Phe Ala Ser Thr Thr Leu Met Met Phe Leu Ala Arg Val Pro Phe Leu
115 120 125

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
85 90 95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Xaa Val
100 105 110

Glu Glu Glu Xaa Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu
115 120 125

Arg Leu Ala Thr Gly Phe Phe His Pro
130 135

<210> 1352
<211> 124
<212> PRT
<213> Homo sapiens

<400> 1352
Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
1 5 10 15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
20 25 30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
35 40 45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
50 55 60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
65 70 75 80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
85 90 95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Ser Gly Cys Gln
100 105 110

Ser Leu Val Ala Gly Gln Gly His His Asn His Lys
115 120

<210> 1353
<211> 145
<212> PRT
<213> Homo sapiens

<220>
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<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1353
 Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
 1 5 10 15
 Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
 20 25 30
 Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
 35 40 45
 Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
 50 55 60
 Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
 65 70 75 80
 Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
 85 90 95
 His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Ser Val
 100 105 110
 Glu Glu Glu Lys Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu
 115 120 125
 Arg Leu Ala Thr Gly Phe Xaa His Xaa Leu Thr Gln Ser Ala Asp Met
 130 135 140
 Gly
 145

<210> 1354
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1354
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 1355
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1355
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 1356
 <211> 419
 <212> PRT
 <213> Homo sapiens

<400> 1356
 Met Asn Asn Gln Lys Gln Gln Lys Pro Thr Leu Ser Gly Gln Arg Phe
 1 5 10 15
 Lys Thr Arg Lys Arg Asp Glu Lys Glu Arg Phe Asp Pro Thr Gln Phe
 20 25 30
 Gln Asp Cys Ile Ile Gln Gly Leu Thr Glu Thr Gly Thr Asp Leu Glu
 35 40 45
 Ala Val Ala Lys Phe Leu Asp Ala Ser Gly Ala Lys Leu Asp Tyr Arg
 50 55 60
 Arg Tyr Ala Glu Thr Leu Phe Asp Ile Leu Val Ala Gly Gly Met Leu

385

390

395

400

Val Glu Trp Leu Lys Asn Ala Glu Glu Glu Ser Glu Ser Glu Ala Glu
405 410 415

Glu Gly Asp

<210> 1357

<211> 19

<212> PRT

<213> Homo sapiens

<400> 1357

Thr Ile Ala Cys Met Leu Thr Phe Cys Phe Val Leu Phe Cys Phe Val
1 5 10 15

Leu His Phe

<210> 1358

<211> 857

<212> PRT

<213> Homo sapiens

<400> 1358

Met Ser Tyr Tyr Met Ala Asp Arg Lys His Arg Lys Ala Phe Leu Glu
1 5 10 15

Ala Arg Gln Ser Leu Glu Val Lys Met Asn Leu Glu Glu Gln Ser Gln
20 25 30

Gln Gln Glu Asn Leu Met Leu Ser Ile Leu Pro Lys His Val Ala Asp
35 40 45

Glu Met Leu Lys Asp Met Lys Lys Asp Glu Ser Gln Lys Asp Gln Gln
50 55 60

Gln Phe Asn Thr Met Tyr Met Tyr Arg His Glu Asn Val Ser Ile Leu
65 70 75 80

Phe Ala Asp Ile Val Gly Phe Thr Gln Leu Ser Ser Ala Cys Ser Ala
85 90 95

Gln Glu Leu Val Lys Leu Leu Asn Glu Leu Phe Ala Arg Phe Asp Lys
100 105 110

Leu Ala Ala Lys Tyr His Gln Leu Arg Ile Lys Ile Leu Gly Asp Cys
115 120 125

Tyr Tyr Cys Ile Cys Gly Leu Pro Asp Tyr Arg Glu Asp His Ala Val
130 135 140

Cys Ser Ile Leu Met Gly Leu Ala Met Val Glu Ala Ile Ser Tyr Val
145 150 155 160

Arg	Glu	Lys	Thr	Lys	Thr	Gly	Val	Asp	Met	Arg	Val	Gly	Val	His	Thr		165	170	175
Gly	Thr	Val	Leu	Gly	Gly	Val	Leu	Gly	Gln	Lys	Arg	Trp	Gln	Tyr	Asp		180	185	190
Val	Trp	Ser	Thr	Asp	Val	Thr	Val	Ala	Asn	Lys	Met	Glu	Ala	Gly	Gly		195	200	205
Ile	Pro	Gly	Arg	Val	His	Ile	Ser	Gln	Ser	Thr	Met	Asp	Cys	Leu	Lys		210	215	220
Gly	Glu	Phe	Asp	Val	Glu	Pro	Gly	Asp	Gly	Gly	Ser	Arg	Cys	Asp	Tyr		225	230	235
Leu	Glu	Glu	Lys	Gly	Ile	Glu	Thr	Tyr	Leu	Ile	Ile	Ala	Ser	Lys	Pro		245	250	255
Glu	Val	Lys	Lys	Thr	Ala	Thr	Gln	Asn	Gly	Leu	Asn	Gly	Ser	Ala	Leu		260	265	270
Pro	Asn	Gly	Ala	Pro	Ala	Ser	Ser	Lys	Ser	Ser	Ser	Pro	Ala	Leu	Ile		275	280	285
Glu	Thr	Lys	Glu	Pro	Asn	Gly	Ser	Ala	His	Ser	Ser	Gly	Ser	Thr	Ser		290	295	300
Glu	Lys	Pro	Glu	Glu	Gln	Asp	Ala	Gln	Ala	Asp	Asn	Pro	Ser	Phe	Pro		305	310	315
Asn	Pro	Arg	Arg	Arg	Leu	Arg	Leu	Gln	Asp	Leu	Ala	Asp	Arg	Val	Val		325	330	335
Asp	Ala	Ser	Glu	Asp	Glu	His	Glu	Leu	Asn	Gln	Leu	Leu	Asn	Glu	Ala		340	345	350
Leu	Leu	Glu	Arg	Glu	Ser	Ala	Gln	Val	Val	Lys	Lys	Arg	Asn	Thr	Phe		355	360	365
Leu	Leu	Ser	Met	Arg	Phe	Met	Asp	Pro	Glu	Met	Glu	Thr	Arg	Tyr	Ser		370	375	380
Val	Glu	Lys	Glu	Lys	Gln	Ser	Gly	Ala	Ala	Phe	Ser	Cys	Ser	Cys	Val		385	390	395
Val	Leu	Leu	Cys	Thr	Ala	Leu	Val	Glu	Ile	Leu	Ile	Asp	Pro	Trp	Leu		405	410	415
Met	Thr	Asn	Tyr	Val	Thr	Phe	Met	Val	Gly	Glu	Ile	Leu	Leu	Leu	Ile		420	425	430
Leu	Thr	Ile	Cys	Ser	Leu	Ala	Ala	Ile	Phe	Pro	Arg	Ala	Phe	Pro	Lys		435	440	445
Lys	Leu	Val	Ala	Phe	Ser	Thr	Trp	Ile	Asp	Arg	Thr	Arg	Trp	Ala	Arg		450	455	460
Asn	Thr	Trp	Ala	Met	Leu	Ala	Ile	Phe	Ile	Leu	Val	Met	Ala	Asn	Val		465	470	475

Val	Asp	Met	Val	Ser	His	Met	Val	Lys	Leu	Thr	Leu	Met	Leu	Val	
				485					490					495	
Ala	Gly	Ala	Val	Ala	Thr	Ile	Asn	Leu	Tyr	Ala	Trp	Arg	Pro	Val	Phe
			500					505					510		
Asp	Glu	Tyr	Asp	His	Lys	Arg	Phe	Arg	Glu	His	Asp	Leu	Pro	Met	Val
		515					520					525			
Ala	Leu	Glu	Gln	Met	Gln	Gly	Phe	Asn	Pro	Gly	Leu	Asn	Gly	Thr	Asp
		530				535					540				
Arg	Leu	Pro	Leu	Val	Pro	Ser	Lys	Tyr	Ser	Met	Thr	Val	Met	Val	Phe
					550					555					560
Leu	Met	Met	Leu	Ser	Phe	Tyr	Tyr	Phe	Ser	Arg	His	Val	Glu	Lys	Leu
				565					570					575	
Ala	Arg	Thr	Leu	Phe	Leu	Trp	Lys	Ile	Glu	Val	His	Asp	Gln	Lys	Glu
			580					585					590		
Arg	Val	Tyr	Glu	Met	Arg	Arg	Trp	Asn	Glu	Ala	Leu	Val	Thr	Asn	Met
			595				600					605			
Leu	Pro	Glu	His	Val	Ala	Arg	His	Phe	Leu	Gly	Ser	Lys	Lys	Arg	Asp
		610				615					620				
Glu	Glu	Leu	Tyr	Ser	Gln	Thr	Tyr	Asp	Glu	Ile	Gly	Val	Met	Phe	Ala
					630					635					640
Ser	Leu	Pro	Asn	Phe	Ala	Asp	Phe	Tyr	Thr	Glu	Glu	Ser	Ile	Asn	Asn
				645					650					655	
Gly	Gly	Ile	Glu	Cys	Leu	Arg	Phe	Leu	Asn	Glu	Ile	Ile	Ser	Asp	Phe
			660					665					670		
Asp	Ser	Leu	Leu	Asp	Asn	Pro	Lys	Phe	Arg	Val	Ile	Thr	Lys	Ile	Lys
		675					680					685			
Thr	Ile	Gly	Ser	Thr	Tyr	Met	Ala	Ala	Ser	Gly	Val	Thr	Pro	Asp	Val
		690				695					700				
Asn	Thr	Asn	Gly	Phe	Ala	Ser	Ser	Asn	Lys	Glu	Asp	Lys	Ser	Glu	Arg
					710					715					720
Glu	Arg	Trp	Gln	His	Leu	Ala	Asp	Leu	Ala	Asp	Phe	Ala	Leu	Ala	Met
				725					730					735	
Lys	Asp	Thr	Leu	Thr	Asn	Ile	Asn	Asn	Gln	Ser	Phe	Asn	Asn	Phe	Met
			740					745					750		
Leu	Arg	Ile	Gly	Met	Asn	Lys	Gly	Gly	Val	Leu	Ala	Gly	Val	Ile	Gly
		755					760					765			
Ala	Arg	Lys	Pro	His	Tyr	Asp	Ile	Trp	Gly	Asn	Thr	Val	Asn	Val	Ala
						775					780				
Ser	Arg	Met	Glu	Ser	Thr	Gly	Val	Met	Gly	Asn	Ile	Gln	Val	Val	Glu
					790					795					800

Glu Thr Gln Val Ile Leu Arg Glu Tyr Gly Phe Arg Phe Val Arg Arg
805 810 815

Gly Pro Ile Phe Val Lys Gly Lys Gly Glu Leu Leu Thr Phe Phe Leu
820 825 830

Lys Gly Arg Asp Lys Leu Ala Thr Phe Pro Asn Gly Pro Ser Val Thr
835 840 845

Leu Pro His Gln Val Val Asp Asn Ser
850 855

<210> 1359
<211> 188
<212> PRT
<213> Homo sapiens

<400> 1359
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
115 120 125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
130 135 140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145 150 155 160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
165 170 175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
180 185

<210> 1360
<211> 188

<212> PRT
<213> Homo sapiens-

<400> 1360

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
1 5 10 15
Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
20 25 30
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
35 40 45
Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
50 55 60
Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65 70 75 80
Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
85 90 95
Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110
Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
115 120 125
Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
130 135 140
Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145 150 155 160
Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
165 170 175
Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
180 185

<210> 1361
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1361

Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu
1 5 10 15

Asp Glu Arg Val His Val Val
165

<210> 1363
<211> 286
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (204)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (264)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1363
Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
1 5 10 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
20 25 30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
35 40 45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
50 55 60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
65 70 75 80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
85 90 95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
100 105 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
115 120 125

115				120				125							
Asn	Thr	Lys	Val	Lys	Pro	Gln	Phe	Gln	Glu	Ile	Leu	Arg	Leu	Ser	Glu
130				135				140							
Glu	Asn	Ile	Asp	Ser	Ser	Ala	Gly	Asn	Gly	Val	Leu	Thr	Lys	Ala	Thr
145				150				155				160			
Val	Pro	Ile	Tyr	Ala	Thr	Gly	Val	Leu	Thr	Cys	Tyr	Ile	Gln	Glu	Glu
				165				170				175			
Asp	Arg	Lys	Leu	Leu	Val	Gly	Phe	Leu	Glu	Asp	Val	Met	Thr	Leu	Leu
				180				185				190			
Ser	Leu	Ser	His	Ala	Pro	Leu	Asp	Ser	Leu	Lys	Ala	Ser	Phe	Val	Glu
195				200				205							
Leu	Gly	Ala	Asn	Pro	Ala	Tyr	His	Glu	Leu	Leu	Leu	Thr	Val	Leu	Trp
210				215				220							
Tyr	Gly	Val	Val	His	Thr	Ser	Ala	Leu	Val	Arg	Cys	Thr	Ala	Ala	Arg
225				230				235				240			
Met	Phe	Glu	Val	Cys	Gln	His	Met	Pro	Leu	Leu	Val	Ser	Ile	Ile	Met
				245				250				255			
Ile	Phe	Phe	Phe	Leu	Arg	Arg	Arg	Arg	Glu	Phe	Phe	Leu	Ile	Lys	Arg
260				265				270							
Leu	Cys	Ile	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys					
275				280											

<210> 1365.

<212> PRT

<213> Home

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (303)$

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365

Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu
1 5 10 15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr
20 25 30

45

Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro
145 150 155

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Met Trp Arg Leu Pro Gly Leu Leu Gly Arg Ala Leu Pro Arg Thr Leu
1 5 10 15

Gly Pro Ser Leu Trp Arg Val Thr Pro Lys Ser Thr Ser Pro Asp Gly
20 25 30

Pro Gln Thr Thr Ser Ser Thr Leu Leu Val Pro Val Pro Asn Leu Asp
35 40 45

Arg Ser Gly Pro His Gly Pro Gly Thr Ser Gly Gly Pro Arg Ser His
50 55 60

Gly Trp Lys Asp Ala Phe Gln Trp Met Ser Ser Arg Val Ser Pro Asn
65 70 75 80

Thr Leu Trp Asp Ala Ile Ser Trp Gly Thr Leu Ala Val Leu Ala Leu
85 90 95

Gln Leu Ala Arg Gln Ile His Phe Gln Ala Ser Leu Pro Ala Gly Pro

[illegible]

420

425

430

Met Gly Ala Ala Ala Gly Gly Pro Ala Thr
435 440

<210> 1369

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1369

Met Gly Leu Arg Leu Pro Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr
1 5 10 15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly
20 25 30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro
35 40 45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp
50 55 60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln
65 70 75 80

Asp Leu Ser Gly

<210> 1370

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1370

Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val
1 5 10 15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly
20 25 30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile
35 40 45

Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu
50 55 60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser
65 70 75 80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe
85 90 95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln
100 105 110

Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp
 115 120 125

Pro

<210> 1371

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1371

Xaa Xaa Asp Thr Gln Gly Arg Val Arg Gly Arg His Glu Glu Trp Gly
 1 5 10 15

Gly Arg Arg Trp Arg Lys Glu Gly Ser Glu Gln Arg Ala Pro Gly Met
 20 25 30

Ala Trp Lys Arg Leu Ser Pro Trp Ile Leu Trp Val Gly Ala Ser Gly
 35 40 45

Leu Thr Ser Xaa Xaa
 50

<210> 1372

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1372

Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val
 1 5 10 15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly
 20 25 30

[illegible]

```

<400> 1374
Gln Gly Thr Pro Arg Leu Cys Thr Thr Arg Leu Leu Val Gln Arg Ala
  1                      5                      10                      15
Thr Ile Ser Val Cys Phe Ile Phe Tyr Cys Ile Ile Tyr Ser Lys Ile
          20                      25                      30
Asn Asn Thr Leu Thr Cys Phe His Thr Gln Lys Ile Tyr Arg Val Lys
          35                      40                      45
Ser Leu Pro Pro Ile Leu Ile Leu His Leu Leu Ser Ser Cys Leu Pro
  50                      55                      60
Trp Pro Arg Gly Asn His Tyr Ser His Pro Tyr Ile Gln His Phe Phe
  65                      70                      75                      80
Met Asp Ile Gln Xaa Asn Gly Asn Val Xaa Ser His Ile Ser Leu Phe
          85                      90                      95
Xaa Pro

```

```

<400> 1375
Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser
  1                      5                      10                      15
Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala
      20                      25                      30

```


Figure 1. Schematic representation of the experimental design. The first part of the study was a 2-week pretest period during which the subjects were familiarized with the experimental protocol. The second part of the study was a 4-week training period during which the subjects were trained on the experimental protocol. The third part of the study was a 4-week testing period during which the subjects were tested on the experimental protocol. The fourth part of the study was a 4-week follow-up period during which the subjects were followed up on the experimental protocol.

Cys Arg Ser Leu Gln Ser Pro Gln Glu Gln Ile Ile Leu Ala Pro Ser
 355 360 365

Leu Ala Lys Val Asp Met Glu Met Thr Gln Leu Thr Gln Glu Asn Ala
 370 375 380

Asp Phe Ala Thr Arg Asp Arg Tyr His His Ser Ser Leu Val Asn Arg
 385 390 395 400

Glu Gln Leu Met Pro His Tyr
 405

<210> 1376
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1376
 Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg
 1 5 10 15

Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val
 20 25 30

Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val
 35 40 45

Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser
 50 55 60

Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu
 65 70 75 80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu
 85 90 95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala
 100 105 110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly
 115 120 125

Gly Asn Lys Lys Thr Leu Gly Thr Pro
 130 135

<210> 1377
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids.

Figure 1 is a schematic representation of the experimental design. It shows a flowchart with the following steps: 1. Selection of 1000 subjects, 2. Random assignment to two groups (500 each), 3. Baseline assessment, 4. Intervention (12 weeks), 5. Post-intervention assessment, 6. Follow-up assessment (6 months later).

<211> 82

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ile Arg Arg Leu Val Phe Ala Ala Phe Pro Arg Leu Phe Pro Val
1 5 10 15

Thr Met Thr Ala Thr Ser Val Gly Lys Ala Pro Pro Gly Pro Leu Pro
35 40 45

Val Gly Ala Cys Arg Gly Val Arg Gly Met Ala Asp Leu Met Val Pro
65 70 75 80

<210> 1380

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Xaa Glu Gly Trp Xaa Val Ala Thr Gly Gln Val Thr Gly Phe Phe
210 215 220

Asp Ala Pro Arg Gly Ile His Arg Leu Leu Gly Leu Xaa Arg Val Tyr
225 230 235 240

Pro Asp Pro Gly Lys Xaa Arg Lys Arg Gly Asn Leu Pro Leu
245 250

<210> 1381

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1381

Gly Arg Glu Phe Glu Thr Ser Leu Asp Asn Ile Ala Arg Asp Pro Val
1 5 10 15

Cys Ile Thr Ser Leu Lys Ile Asp Trp Ala Trp Trp Cys Met Met Val
20 25 30

Val Pro Ala Thr Arg Gly Thr Gly Ala Glu Gly Ser Leu Glu Ser Arg
35 40 45

Phe Gln Ala Ala Val Gly Cys Asp Cys Val Thr Ala Leu Gln Pro Gly
50 55 60

Gln Gln Ser Glu Thr Leu Ser Leu Lys Lys
65 70

<210> 1382

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1382

Met Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser
1 5 10 15

Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser
20 25 30

Leu Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro
35 40 45

Ala Thr Leu Ser Pro Ala Glu Glu Lys Ala Lys Gly Pro His Glu
50 55 60

Lys Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg
65 70 75 80

Ser Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser
85 90 95

Lys Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala

100	105	110
Leu Ser Val Ile Leu Arg Ser Val His Ser Ala Val Asn His Thr Pro		
115	120	125
Thr His Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Asn Ser Asp Glu		
130	135	140
Glu Glu Leu Lys Val Pro Leu Glu Glu Tyr Val His Lys Arg Tyr Pro		
145	150	155
Gly Leu Val Lys Val Val Arg Asn Gln Lys Arg Glu Gly Leu Ile Arg		
165	170	175
Ala Arg Ile Glu Gly Trp Lys Val Ala Thr Gly Gln Val Thr Gly Phe		
180	185	190
Phe Asp Ala His Val Glu Phe Thr Ala Gly Trp Ala Glu Pro Val Leu		
195	200	205
Ser Arg Ile Gln Glu Asn Arg Lys Arg Val Ile Leu Pro Ser Ile Asp		
210	215	220
Asn Ile Lys Gln Asp Asn Phe Glu Val Gln Arg Tyr Glu Asn Ser Ala		
225	230	235
His Gly Tyr Ser Trp Glu Leu Trp Cys Met Tyr Ile Ser Pro Pro Lys		
245	250	255
Asp Trp Trp Asp Ala Gly Asp Pro Ser Leu Pro Ile Ser Asp Arg Phe		
260	265	270

Ser

<210> 1383
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 1383
 Met Gln Gln Gly Pro Lys Glu Phe Ile Glu Cys Val Ser His Ile Arg
 1 5 10 15
 Leu Leu Ser Trp Leu Leu Leu Gly Ser Leu Thr His Asn Ala Val Cys
 20 25 30
 Pro Asn Ala Ser Ser Pro Cys Leu Pro Ile Pro Leu Asp Ala Gly Ser
 35 40 45
 His Val Ala Asp His Leu Ile Val Ile Leu Ile Gly Phe Pro Glu Gln
 50 55 60
 Ser Lys Thr Ser Val Leu His Met Cys Ser Leu Phe His Ala Phe Ile
 65 70 75 80
 Phe Ala Gln Leu Trp Thr Val Tyr Cys Glu Gln Ser Ala Val Ala Thr
 85 90 95


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<400> 1385
Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe
  1              5              10              15
Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser
          20              25              30
Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro
          35              40              45
Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu
          50              55              60
Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly
  65              70              75              80
Gly Arg Cys Ser Gly
          85

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<220> .
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
```

828

Leu Leu Gly Cys Thr Lys Ile Gly Gly Arg Ser Asp Leu Ala Gly Pro
 1 5 10 15
 Trp Val Arg Xaa Arg Ser Leu Glu Pro Thr Cys Val Gly Met Asn Pro
 20 25 30
 Gly Ser Ala Gly Cys Pro Leu Val Ser Gly Ser Thr Ser Leu Cys Phe
 35 40 45
 Arg Val Leu Ile Tyr Lys Met Gly Met Met Met Met Ile Leu Trp Gly
 50 55 60
 Cys Asn Met Val Gln Ser His Trp Lys Ser Leu Ala Val Pro Gln Lys
 65 70 75 80
 Val Lys His Lys Ser Tyr His Met Ile Gln Val Trp Gln His Ile Pro
 85 90 95
 Val Val Pro Ala Thr Gln Glu Asp His Leu Ser Pro Gly Val
 100 105 110

<210> 1387
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1387
 Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe
 1 5 10 15
 Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser
 20 25 30
 Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro
 35 40 45
 Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu
 50 55 60
 Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly
 65 70 75 80
 Gly Arg Cys Ser Gly
 85

<210> 1388
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 1388
 Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn
 1 5 10 15
 Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly
 20 25 30

Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala
35 40 45

Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe
50 55 60

Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val
65 70 75 80

Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile
85 90 95

Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile
100 105 110

Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile
115 120 125

Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp
130 135 140

Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser
145 150 155 160

Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His
165 170 175

Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr
180 185 190

Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp
195 200 205

Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys
210 215 220

Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu
225 230 235 240

Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys Lys His
245 250 255

Thr Lys Lys Asn Glu
260

<210> 1389
<211> 72
<212> PRT
<213> Homo sapiens

<400> 1389
Ile Val Asn Pro Met Phe Cys Asn Phe His Phe Arg Ser Leu Thr Tyr
1 5 10 15
Phe Phe Leu Ser His Lys Asn Thr Phe Val Leu Ile Val Gly Glu Ile
20 25 30

Phe Ser Ala Phe Cys Met Phe Phe Leu Ile Phe Val Gly Leu Asn Ile
 35 40 45
 Leu Val Val Ile Thr Val Ile Ile Gln Gln Lys Ala Tyr Pro Phe Lys
 50 55 60
 Asn Phe Ser Thr Met Ser Phe Phe
 65 70

<210> 1390
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 1390
 Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn
 1 5 10 15
 Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly
 20 25 30
 Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala
 35 40 45
 Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe
 50 55 60
 Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val
 65 70 75 80
 Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile
 85 90 95
 Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile
 100 105 110
 Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile
 115 120 125
 Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp
 130 135 140
 Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser
 145 150 155 160
 Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His
 165 170 175
 Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr
 180 185 190
 Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp
 195 200 205
 Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys
 210 215 220
 Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu

Figure 1: Schematic diagram of the experimental setup. The diagram shows a cross-section of a polymer blend film. The top layer is labeled "Polymer blend" and the bottom layer is labeled "Polymer solution". The thickness of the polymer blend film is indicated as 0.1 mm. The thickness of the polymer solution layer is indicated as 0.1 mm. The diagram also shows the initial concentration of the polymer solution, C_0 , and the initial concentration of the polymer blend, C_1 . The diagram is labeled with "Figure 1" and "Schematic diagram of the experimental setup".

```

<400> 1391
Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe
  1                      5                      10                      15

Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu
      20                      25                      30

Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
      35                      40                      45

Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu
      50                      55                      60

Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp
      65                      70                      75                      80

Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys
      85                      90                      95

Phe Ser

```

```

<400> 1392
Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe
  1             5             10             15
Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu
      20             25             30
Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
      35             40             45
Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu
      50             55             60
Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp
      65             70             75             80

```



```
<210> 1393
<211> 139
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1393
Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Xaa Tyr Arg
1 5 10 15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
20 25 30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
35 40 45

Trp Leu Lys Arg Thr Ala Thr Arg Ser Ser Arg Pro Cys Ala Ser Asn
50 55 60

Thr Arg Cys Cys Ser Trp Pro Cys Ser Asp Pro Lys Ala Thr Gly Ser
65 70 75 80

Ser Pro Gly Ala Arg Ser Pro Pro Ser Thr Gly Cys Lys Gly Ile Ala
85 90 95

Cys Ala Ser Arg Ser Phe Arg Gly Gly Asp Asn Ala Cys Cys Val Lys
100 105 110

Gln Asp Ser Xaa Ser Leu Cys Ile Tyr Arg Ser Asp Val Asp Ser Ser
115 120 125

Gln Asn Ser Leu Val Thr Lys Gly Ala Gly Xaa
130 135

<210> 1394
<211> 316

Figure 1: Schematic representation of the experimental design. The diagram shows a sequence of steps: 1. Pre-test (N=10), 2. Training (N=10), 3. Transfer (N=10), 4. Post-test (N=10), 5. Follow-up (N=10). Each step includes a description of the task and the number of participants. The tasks involve learning a sequence of 10 stimuli (A-J) and responding with a specific action (e.g., 'A: 1', 'B: 2', etc.). The diagram also shows the timing of the tasks, with a 10-minute interval between the Pre-test and Training, and a 10-minute interval between the Training and Transfer. The Post-test and Follow-up are also shown with 10-minute intervals. The diagram is labeled 'Figure 1' at the bottom.

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
1 5 10 15

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
35 40 45

Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
50 55 60

His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
65 70 75 80

Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Leu Gln Gly Asp Arg
85 90 95

Leu Arg Val Pro Leu Val Ser Thr Arg Glu Glu Asp Arg Asn Gln Asp
100 105 110

Gly Lys Thr Asp Met Leu His Phe Lys Leu Glu Leu Pro Leu Gln Ser
115 120 125

Thr Glu His Val Leu Gly Val Gln Leu Ile Leu Thr Phe Ser Tyr Arg
130 135 140

Leu His Arg Met Ala Thr Leu Val Met Gln Ser Met Ala Phe Leu Gln
145 150 155 160

Ser Ser Phe Pro Val Pro Gly Ser Gln Leu Tyr Val Asn Gly Asp Leu
165 170 175

Arg Leu Gln Gln Lys Gln Pro Leu Ser Cys Gly Gly Leu Asp Ala Arg
180 185 190

Tyr Asn Ile Ser Val Ile Asn Gly Thr Ser Pro Phe Ala Tyr Asp Tyr
195 200 205

Asp Leu Thr His Ile Val Ala Ala Tyr Gln Glu Arg Asn Val Thr Thr
210 215 220

Val Leu Asn Asp Pro Asn Pro Ile Trp Leu Val Gly Arg Ala Ala Asp
225 230 235 240

Ala Pro Phe Val Ile Asn Ala Ile Ile Arg Tyr Pro Val Glu Val Ile
245 250 255

Ser Tyr Gln Pro Gly Phe Trp Glu Met Val Lys Phe Ala Trp Val Gln
260 265 270

Tyr Val Ser Ile Leu Leu Ile Phe Leu Trp Val Phe Glu Arg Ile Lys
275 280 285

Ile Phe Val Phe Gln Asn Gln Val Val Thr Thr Ile Pro Val Thr Val
290 295 300

Thr Pro Arg Gly Asp Leu Cys Lys Glu His Leu Ser
305 310 315

<210> 1395

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1395

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys
65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95

Leu Ile Ala Ser Thr Ala Val
100

<210> 1396

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1396

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
65 70 75 80


```
<210> 1397
<211> 125
<212> PRT
<213> Homo sapiens
```

Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe
1 5 10 15

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Pro Gly Phe Lys Cys Phe
35 40 45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His
50 55 60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His
65 70 75 80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala .
85 90 95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro
100 105 110

Pro Ala Cys Leu Val Phe Lys Phe Leu Phe Leu Gly Ser
115 120 125

```
<210> 1398
<211> 112
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Ala Pro Val Leu Leu Leu Pro Ser Ser Cys Trp Gln Phe Trp Val Leu
1 5 10 15

<400> 1400
Met Glu Leu Gly Cys Trp Thr His Trp Gly Ser Leu Phe Phe Ser Ser
1 5 10 15
Phe Ser Ser Arg Pro Cys Gln Glu Ser Thr Gln Ser Leu Met Lys Pro
20 25 30
Ala Leu Glu Gln Ser Gly Ile Ser Cys Val Gly Ser Ala Val Asn Met
35 40 45
Ile Arg Leu Ser Ala Ser Ala Pro Glu Arg Gly Lys Ser Trp Val Ile
50 55 60
Pro Ser Leu Ala Ala Gly Met Arg Arg Met Ser Val Thr Pro Ala
65 70 75

<210> 1401
<211> 455
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1401
Xaa Thr Gly Gln Arg Cys Glu Asn Leu Leu Glu Glu Arg Asn Cys Ser
1 5 10 15
Xaa Pro Gly Gly Pro Val Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro
20 25 30
Gly Leu Ile Asn Gly Arg His Ala Lys Ile Gly Thr Val Val Ser Phe
35 40 45
Phe Cys Asn Asn Ser Tyr Val Leu Ser Gly Asn Glu Lys Arg Thr Cys
50 55 60
Gln Gln Asn Gly Glu Trp Ser Gly Lys Gln Pro Ile Cys Ile Lys Ala
65 70 75 80
Cys Arg Glu Pro Lys Ile Ser Asp Leu Val Arg Arg Arg Val Leu Pro

95

839

[illegible]

405

410

415

Arg Trp His Leu Met Gly Leu Val Ser Trp Ser Tyr Asp Lys Thr Cys
 420 425 430

Ser His Arg Leu Ser Thr Ala Phe Thr Lys Val Leu Pro Phe Lys Asp
 435 440 445

Trp Ile Glu Arg Asn Met Lys
 450 455

<210> 1402

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1402

Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
 1 5 10 15

Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
 20 25 30

Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr
 35 40 45

Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr
 50 55 60

Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu
 65 70 75 80

Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn
 85 90 95

Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
 100 105 110

Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys
 115 120 125

Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr
 130 135 140

840

T002740" sheet 0060

Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe
 145 150 155 160

Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met
 165 170 175

Cys Gln Tyr Asp Tyr Val Glu Val Arg Asp Gly Asp Asn Arg Asp Gly
 180 185 190

Gln Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Pro Ala Pro Ile Gln
 195 200 205

Ser Ile Gly Ser Ser Leu His Val Leu Phe His Ser Asp Gly Ser Lys
 210 215 220

Asn Phe Asp Gly Phe His Ala Ile Tyr Glu Glu Ile Thr Ala Cys Ser
 225 230 235 240

Ser Ser Pro Cys Phe His Asp Gly Thr Cys Val Leu Asp Lys Ala Gly
 245 250 255

Ser Tyr Lys Cys Ala Cys Leu Ala Gly Tyr Thr Gly Gln Arg Cys Glu
 260 265 270

Asn Leu Leu Glu Ala Gly Lys Ser Lys Ile Xaa Ala Ser Glu Asp Ser
 275 280 285

Leu Ser Val Leu Glu Glu Arg Xaa Cys Xaa Asp Pro Gly Gly Pro Val
 290 295 300

Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro Gly Leu Ile Asn Gly Arg
 305 310 315 320

His Ala Lys

<210> 1403
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1403
 Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala
 1 5 10 15

Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe
 20 25 30

Phe Val Phe Val Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly
 35 40 45

Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr
 50 55 60

Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe
 65 70 75 80

[illegible]

<400> 1404
Lys Leu Arg Leu Arg Glu Val Lys Ser Ile Ala Gln Gly His Val Ala
1 5 10 15

Pro Val Ser Phe Leu Ala Tyr His Val Ala Ser Lys Asp Cys Ser Ser
35 40 45

Pro Ser Phe Leu Lys His Tyr Val Cys Val Phe Ile Ser Ile Ile Phe
65 70 75 80

Phe Tyr Gln Leu Ala Leu Gly Pro Thr Trp Lys Lys Lys Ser Leu Asn
100 105 110

```
<210> 1405
<211> 80
<212> PRT
<213> Homo sapiens
```

Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe
20 25 30

Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr
50 55 60

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Cys Xaa Phe

<213> Homo sapiens

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp
65 70 75 80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile
85 90

<210> 1408
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1408
Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser
1 5 10 15

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val
20 25 30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met
35 40 45

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val
50 55 60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp
65 70 75 80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile
85 90

<210> 1409
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1409
Met Ile Leu Ile Arg Lys Leu Phe Leu Arg Arg Cys His Trp Gly Gly
1 5 10 15

Trp Leu Leu Pro Pro Ala Arg Ala Ser Cys Ser Gly Lys His Ser Leu
20 25 30

Ser His Ser Cys Arg Gly Pro Arg Val Gln Arg Pro Pro His Pro Arg
35 40 45

Phe Trp Ala Gly Thr Leu Ala Pro Gly Pro Cys Pro Gly Leu Trp Cys
50 55 60

Leu Pro Gly Leu Val Gln Val Asp Val Leu Ala Ala Gly Arg Cys Asp
65 70 75 80

His Leu Ser Cys Leu Pro Pro Leu Cys Pro Gln Ala Phe Leu Leu
85 90 95

<210> 1410
<211> 92
<212> PRT

<213> Homo sapiens

<400> 1410

Met Pro Gly Cys Val Phe Cys Phe Leu Thr Leu Leu Phe His Ser Leu
1 5 10 15
Ser Val Gly Gln Tyr Cys Cys Leu Ile Cys Val Cys Phe Val Leu Tyr
20 25 30
Val Tyr Thr Gln Ile His Thr Arg Ile His Ile His Thr His Lys His
35 40 45
Phe Phe Phe Pro Trp Arg Gln Gly Ile Ala Leu Ser Pro Arg Leu Glu
50 55 60
Tyr Ser Ser Ala Ile Met Thr His Arg Leu Ile Ala Ala Leu Ala Ser
65 70 75 80
Gln Ala Gln Ala Ile Leu Pro Pro Gln Pro Ser Glu
85 90

<210> 1411

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66).

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1411

Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
1 5 10 15
Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu
20 25 30
Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile
35 40 45
Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro
50 55 60
Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala
65 70 75 80
Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val
85 90 95
Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val
100 105 110

145 150 155 160

His Arg Gln Ala Leu Glu Ala Thr Met Arg Phe Leu
165 170

<210> 1413
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1413
Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
1 5 10 15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu
20 25 30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile
35 40 45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro
50 55 60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala
65 70 75 80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val
85 90 95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val
100 105 110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met
115 120 125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala
130 135 140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro
145 150 155 160

Gln Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala
165 170 175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys
180 185 190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu

205

Ser
225

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp

85										90										95										
Cys	Ser	Ser	Val	Asp	Phe	Ser	Val	Phe	Ser	Ala	Cys	Ser	Val	Pro	Val															
100										105										110										
Val	Thr	Gly	Asp	Ser	Gln	Phe	Cys	Ser	Gln	Lys	Ala	Val	Ile	Tyr	Ser															
115										120										125										
Leu	Asn	Phe	Thr	Ala	Asn	Pro	Pro	Gln	Arg	Val	Phe	Glu	Leu	Val	Asp															
130										135										140										
Gln	Ile	Asn	Pro	Ser	Ile	Phe	Cys	Ile	His	Ile	Thr	Asn	Tyr	Lys	Pro															
145										150										155										
Ala	Leu	Ser	Phe	Ile	Asn	Pro	Glu	Val	Pro	Asp	Glu	Asn	Asn	Phe	Asp															
165										170										175										
Thr	Leu	Met	Lys	Thr	Ser	Asp	Gly	Phe	Thr	Leu	Asn	Ala	Glu	Ser	Tyr															
180										185										190										
Val	Ser	Phe	Thr	Thr	Lys	Leu	Asp	Ile	Pro	Thr	Ala	Ala	Lys	Tyr	Glu															
195										200										205										
Tyr	Gly	Val	Pro	Leu	Gln	Thr	Ser	Asp	Ser	Phe	Leu	Arg	Phe	Pro	Ser															
210										215										220										
Ser	Leu	Thr	Ser	Ser	Leu	Cys	Thr	Asp	Asn	Asn	Pro	Ala	Ala	Phe	Leu															
225										230										235										
Val	Asn	Gln	Ala	Val	Lys	Cys	Thr	Arg	Lys	Ile	Asn	Leu	Glu	Gln	Cys															
245										250										255										
Glu	Glu	Ile	Glu	Ala	Leu	Ser	Met	Ala	Phe	Tyr	Ser	Ser	Pro	Glu	Ile															
260										265										270										
Leu	Arg	Val	Pro	Asp	Ser	Arg	Lys	Lys	Val	Pro	Ile	Thr	Val	Gln	Ser															
275										280										285										
Ile	Val	Ile	Gln	Ser	Leu	Asn	Lys	Thr	Leu	Thr	Arg	Arg	Glu	Asp	Thr															
290										295										300										
Asp	Val	Leu	Gln	Pro	Thr	Leu	Val	Asn	Ala	Gly	His	Phe	Ser	Leu	Cys															
305										310										315										
Val	Asn	Val	Val	Leu	Glu	Val	Lys	Tyr	Ser	Leu	Thr	Tyr	Thr	Asp	Ala															
325										330										335										
Gly	Glu	Val	Thr	Lys	Ala	Asp	Leu	Ser	Phe	Val	Leu	Gly	Thr	Val	Ser															
340										345										350										
Ser	Val	Val	Val	Pro	Leu	Gln	Gln	Lys	Phe	Glu	Ile	His	Phe	Leu	Gln															
355										360										365										
Glu	Asn	Thr	Gln	Pro	Val	Pro	Leu	Ser	Gly	Asn	Pro	Gly	Tyr	Val	Val															
370										375										380										
Gly	Leu	Pro	Leu	Ala	Ala	Gly	Phe	Gln	Pro	His	Lys	Gly	Ser	Gly	Ile															
385										390										395										
Ile	Gln	Thr	Thr	Asn	Arg	Tyr	Gly	Gln	Leu	Thr	Ile	Leu	His	Ser	Thr															

405	410	415
Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu 420	425	430
Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala 435	440	445
Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly 450	455	460
Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln 465	470	475
Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn 485	490	495
Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys 500	505	510
Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn 515	520	525
Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly 530	535	540
Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val 545	550	555
Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala 565	570	575
Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val 580	585	
 <210> 1416 <211> 157 <212> PRT <213> Homo sapiens <400> 1416		
Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys 1	5	10 15
Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr 20	25	30
Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe 35	40	45
Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser 50	55	60
Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys 65	70	75 80
Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp 85	90	95

Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly
 530 535 540

Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val
 545 550 555 560

Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala
 565 570 575

Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val
 580 585

<210> 1418
 <211> 137
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (133)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1418
 Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
 1 5 10 15

Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
 20 25 30

Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
 35 40 45

Cys Gly Thr Xaa Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
 50 55 60

Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Gly Asn Val
 65 70 75 80

Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
 85 90 95

Gly Leu Met Ala Val Ala Ser Phe Thr Ile Gly Ile Cys His Leu Trp
 100 105 110

Gly Asp Pro Thr Xaa Gly Pro Cys Ala Pro Arg His Gly Ala Trp Leu
 115 120 125

Val Gly Cys Gln Xaa Pro Cys Phe Xaa
 130 135

<210> 1419

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1419

Leu Lys Pro Phe Ser Gln Thr Pro Tyr Phe Glu Ser Pro Ser Phe Ser
 1 5 10 15

Pro Ser Trp Gly Trp Arg Gln Glu Asp Met Trp Glu Ala Thr Glu Ala
 20 25 30

Gly Ser Leu Cys Pro Leu Leu Cys Gly Trp Gln Gly Ser Pro Gly Leu
 35 40 45

Ile His Pro Leu Met Glu Pro Gln Glu Arg Arg Ala Pro Pro Lys Gly
 50 55 60

Met Gln Leu Ala Ala Pro Leu Ser His Thr Cys Asp Pro Ser Val Arg
 65 70 75 80

Gly His Pro Ala Leu Ala Glu Val Ser Xaa Thr Val Leu Arg Ala Leu
 85 90 95

Pro Ser Cys Glu Phe Leu Pro Trp Arg Leu Phe Pro Gly Ala Glu Ser
 100 105 110

Gly Pro Ala Ala Lys Leu Gln Ala Ser Gln Gly Trp Gly Gly Cys Gly
 115 120 125

Thr Lys Val His Val Gly Pro Ser Thr Gly Cys Ser Arg Ser Trp Val
 130 135 140

Pro Arg Ala Trp Gln Val Lys Leu Cys Arg Pro Ser Ala
 145 150 155

<210> 1420

<211> 631

<212> PRT

<213> Homo sapiens

<400> 1420

Met Lys Leu Tyr Ala Leu Cys Thr Arg Ala Gln Pro Asp Gly Pro Trp
 1 5 10 15

Leu Lys Trp Thr Asp Lys Asp Ser Leu Leu Phe Met Val Glu Glu Pro
 20 25 30
 Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu Leu Ile Thr Val Leu
 35 40 45
 Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn Leu Gly Leu Met Ala
 50 55 60
 Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn Cys Gly Thr Glu Lys
 65 70 75 80
 Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile Arg Arg Lys Gly Asn
 85 90 95
 Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val Leu Val Asn Thr Ser
 100 105 110
 Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser Gly Leu Met Ala Val
 115 120 125
 Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly Glu Ile Leu Pro Gln
 130 135 140
 Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly Ala Asn Thr Ile Leu
 145 150 155 160
 Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro Leu Ser Phe Pro Ile
 165 170 175
 Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Glu Ile Arg Thr Val Tyr
 180 185 190
 Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val Thr Glu Pro Tyr Asn
 195 200 205
 Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln Gly Ala Leu Glu Leu
 210 215 220
 Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln Leu Gln Asp Cys Phe
 225 230 235 240
 Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn Thr Met Ser Glu Ile
 245 250 255
 Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe Glu Asp Glu Gln Ser
 260 265 270
 Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu Ala Phe Val Asp Pro
 275 280 285
 Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg Phe Tyr Asn His Pro
 290 295 300
 Val His Phe Val Phe His Asp Thr Lys Leu Asp Ala Met Leu Glu Glu
 305 310 315 320
 Phe Lys Lys Gly Lys Ser His Leu Ala Ile Val Gln Lys Val Asn Asn
 325 330 335

[illegible]

<210> 1421
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1421
 Met Gly Val Arg Val Trp Glu Leu Pro Ala Gln Pro Thr Gly Leu His
 1 5 10 15
 Leu Leu Cys Phe Cys Thr Arg Thr Met Leu Leu Ala Leu Lys Leu Pro
 20 25 30
 Lys Thr Lys His Ser Phe Pro Asp Pro Tyr Thr Ser Ile Leu Ser Phe
 35 40 45
 Ile His Pro Ala Phe Thr Glu Asn Leu Thr Leu Cys Gln Val Ser Val
 50 55 60
 Phe Leu Ser Ser Ser Asn Thr Glu Met Asn Gln Met Phe His Gly Val
 65 70 75 80
 Ser Phe Arg

<210> 1422
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1422
 Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr
 1 5 10 15

Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu
 20 25 30
 Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly
 35 40 45
 Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser
 50 55 60
 Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr
 65 70 75 80
 Met Ser Ser Ile Phe Xaa Xaa Ser Leu Asn Val Val Xaa Xaa Phe Xaa
 85 90 95
 Val Met Val Gly Val Phe Arg
 100

<210> 1423
 <211> 384
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1423
 Gln Arg Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His
 1 5 10 15
 Gln Glu Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly
 20 25 30
 Lys Ala Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro
 35 40 45
 Val Leu Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn
 50 55 60
 Gln Arg Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala
 65 70 75 80
 Gly Pro Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Xaa
 85 90 95
 Lys Leu Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr
 100 105 110
 Val Lys Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro
 115 120 125

Ala	Arg	Xaa	Ala	Gly	Gly	Pro	Glu	Glu	Arg	Leu		Glu	Glu	Glu	Phe	Pro
130						135						140				
Gly	Gln	Ser	Gln	Asp	Val	Thr	Gly	Gly	Ser	Gln	Asp	Arg	Lys	Lys		Pro
145					150					155						160
Gly	Lys	Glu	Val	Ala	Ala	Thr	Gly	Thr	Ser	Ile	Leu	Lys	Glu	Ala	Asn	
				165					170						175	
Trp	Leu	Val	Ala	Gly	Pro	Gly	Ala	Glu	Thr	Gly	Asp	Pro	Arg	Met	Lys	
			180					185						190		
Pro	Lys	Gln	Val	Ser	Arg	Asp	Leu	Gly	Leu	Ala	Ala	Asp	Leu	Pro	Gly	
		195					200					205				
Gly	Ala	Glu	Gly	Ala	Ala	Ala	Gln	Pro	Gln	Ala	Val	Leu	Arg	Gln	Pro	
210						215					220					
Glu	Leu	Arg	Val	Ile	Ser	Asp	Gly	Glu	Gln	Gly	Gly	Gln	Gln	Gly	His	
225					230					235					240	
Arg	Leu	Asp	His	Gly	Gly	His	Leu	Glu	Met	Arg	Lys	Ala	Arg	Gly	Gly	
				245					250					255		
Asp	His	Val	Pro	Val	Ser	His	Glu	Gln	Pro	Arg	Gly	Gly	Glu	Asp	Ala	
			260					265					270			
Ala	Val	Gln	Glu	Pro	Arg	Gln	Arg	Pro	Glu	Pro	Glu	Leu	Gly	Leu	Lys	
		275					280					285				
Arg	Ala	Val	Pro	Gly	Gly	Gln	Arg	Pro	Asp	Asn	Ala	Lys	Pro	Asn	Arg	
	290					295					300					
Asp	Leu	Lys	Leu	Gln	Ala	Gly	Ser	Asp	Leu	Arg	Arg	Arg	Arg	Arg	Asp	
305				310						315					320	
Leu	Gly	Pro	His	Ala	Glu	Gly	Gln	Leu	Ala	Pro	Arg	Asp	Gly	Val	Ile	
				325					330					335		
Ile	Gly	Leu	Asn	Pro	Leu	Pro	Asp	Val	Gln	Val	Asn	Asp	Leu	Arg	Gly	
			340					345					350			
Ala	Leu	Asp	Ala	Gln	Leu	Arg	Gln	Ala	Ala	Gly	Gly	Ala	Leu	Gln	Val	
		355					360					365				
Val	His	Ser	Arg	Gln	Leu	Arg	Gln	Ala	Pro	Gly	Pro	Pro	Glu	Glu	Ser	
	370					375					380					

<210> 1424.

<212> PRT

<213> Homo sapiens

Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr

1	5	10	15
Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu	20	25	30
Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly	35	40	45
Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser	50	55	60
Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr	65	70	75
Met Ser Ser Ile Phe Ala Ser Ser Leu Asn Val Val Thr Thr Phe Tyr	85	90	95
Val Met Val Gly Phe Phe Gly Tyr Val Ser Phe Thr Glu Ala Thr Ala	100	105	110
Gly Asn Val Leu Met His Phe Pro Ser Asn Leu Val Thr Glu Met Leu	115	120	125
Arg Val Gly Phe Met Met Ser Val Ala Val Gly Phe Pro Met Met Ile	130	135	140
Leu Pro Cys Arg Gln Ala Leu Ser Thr Leu Leu Cys Glu Gln Gln Gln	145	150	155
Lys Asp Gly Thr Phe Ala Ala Gly Gly Tyr Met Pro Pro Leu Arg Phe	165	170	175
Lys Ala Leu Thr Leu Ser Val Val Phe Gly Thr Met Val Gly Gly Ile	180	185	190
Leu Ile Pro Asn Val Glu Thr Ile Leu Gly Leu Thr Gly Ala Thr Met	195	200	205
Gly Ser Leu Ile Cys Phe Ile Cys Pro Ala Leu Ile Tyr Lys Lys Ile	210	215	220
His Lys Asn Ala Leu Ser Ser Gln Val Val Leu Trp Val Gly Leu Gly	225	230	235
Val Leu Val Val Ser Thr Val Thr Thr Leu Ser Val Ser Glu Glu Val	245	250	255
Pro Glu Asp Leu Ala Glu Glu Ala Pro Gly Gly Arg Leu Gly Glu Ala	260	265	270
Glu Gly Leu Met Lys Val Glu Ala Ala Arg Leu Ser Ala Gln Asp Pro	275	280	285
Val Val Ala Val Ala Glu Asp Gly Arg Glu Lys Pro Lys Leu Pro Lys	290	295	300
Glu Arg Glu Glu Leu Glu Gln Ala Gln Ile Lys Gly Pro Val Asp Val	305	310	315
Pro Gly Arg Glu Asp Gly Lys Glu Ala Pro Glu Glu Ala Gln Leu Asp			

335

Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn Gln Arg

645										650					655				
Ser	Leu	Glu	His	Ser	Glu	Gly	Pro	Val	Gly	Arg	Asp	Pro	Ala	Gly	Pro				
			660					665					670						
Pro	Asp	Gly	Gly	Pro	Asp	Thr	Glu	Pro	Arg	Ala	Ala	Gln	Gly	Lys	Leu				
		675					680					685							
Arg	Asp	Gly	Gln	Lys	Asp	Ala	Ala	Pro	Arg	Ala	Ala	Gly	Thr	Val	Lys				
	690					695					700								
Glu	Leu	Pro	Lys	Gly	Pro	Glu	Gln	Val	Pro	Val	Pro	Asp	Pro	Ala	Arg				
705					710					715					720				
Glu	Ala	Gly	Gly	Pro	Glu	Glu	Arg	Leu	Ala	Glu	Glu	Phe	Pro	Gly	Gln				
				725					730					735					
Ser	Gln	Asp	Val	Thr	Gly	Gly	Ser	Gln	Asp	Arg	Lys	Lys	Pro	Gly	Lys				
			740					745					750						
Glu	Val	Ala	Ala	Thr	Gly	Thr	Ser	Ile	Leu	Lys	Glu	Ala	Asn	Trp	Leu				
	755						760					765							
Val	Ala	Gly	Pro	Gly	Ala	Glu	Thr	Gly	Asp	Pro	Arg	Met	Lys	Pro	Lys				
	770					775					780								
Gln	Val	Ser	Arg	Asp	Leu	Gly	Leu	Ala	Ala	Asp	Leu	Pro	Gly	Gly	Ala				
785					790					795					800				
Glu	Gly	Ala	Ala	Ala	Gln	Pro	Gln	Ala	Val	Leu	Arg	Gln	Pro	Glu	Leu				
				805					810					815					
Arg	Val	Ile	Ser	Asp	Gly	Glu	Gln	Gly	Gly	Gln	Gln	Gly	His	Arg	Leu				
			820					825					830						
Asp	His	Gly	Gly	His	Leu	Glu	Met	Arg	Lys	Ala	Arg	Gly	Gly	Asp	His				
		835					840					845							
Val	Pro	Val	Ser	His	Glu	Gln	Pro	Arg	Gly	Gly	Glu	Asp	Ala	Ala	Val				
	850					855					860								
Gln	Glu	Pro	Arg	Gln	Arg	Pro	Glu	Pro	Glu	Leu	Gly	Leu	Lys	Arg	Ala				
865					870					875					880				
Val	Pro	Gly	Gly	Gln	Arg	Pro	Asp	Asn	Ala	Lys	Pro	Asn	Arg	Asp	Leu				
				885					890					895					
Lys	Leu	Gln	Ala	Gly	Ser	Asp	Leu	Arg	Arg	Arg	Arg	Arg	Asp	Leu	Gly				
			900					905					910						
Pro	His	Ala	Glu	Gly	Gln	Leu	Ala	Pro	Arg	Asp	Gly	Val	Ile	Gly	Leu				
		915					920					925							
Asn	Pro	Leu	Pro	Asp	Val	Gln	Val	Asn	Asp	Leu	Arg	Gly	Ala	Leu	Asp				
	930					935					940								


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<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
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```

<400> 1425
Met Tyr Leu Gln Ile Pro Val Lys His Met Leu His Ser Gly Tyr Gln
  1                      5                      10                      15

Ala Thr Phe Phe Ser Pro Lys Ile Gly Cys Ser Ser Ile Leu Val Phe
      20                      25                      30

Val Cys Leu Leu Val Phe Leu Arg Gln Ser Leu Ala Leu Leu Pro Arg
      35                      40                      45

Leu Glu Tyr Ser Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu
  50                      55                      60

Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr
  65                      70                      75                      80

Gly Met His His His Thr Gln Leu Xaa Phe Cys Thr Phe Ser Arg Xaa
      85                      90                      95

Gly Ile Tyr Gln Leu Ala Ser Xaa Ser Pro Asn Pro Asp Leu
      100                      105                      110

```

```
<210> 1426
<211> 57
<212> PRT
<213> Homo sapiens
```

<400> 1426
Phe Asn Thr Pro Lys Ile Phe Phe Gly Thr Tyr His Arg Gln Gly Thr
1 5 10 15
Leu Ile Ser Thr Gly Asp Thr Ile Ser Cys Leu Gly Leu Leu Cys Ser
20 25 30

[illegible]

<400> 1429

Leu Thr Lys Cys Leu Ala Glu Phe Ser Lys Tyr Asn Asn Phe Thr Leu
20 25 30

Pro Ala Asp Asn Glu Xaa Ile Arg Val Gln Asn Pro Phe Gln Leu Ser
35 40 45

Lys His Leu Leu Ser Leu Tyr Phe Val Ser Asp Thr Gly Val Lys Phe
50 55 60

Trp Lys Cys Lys Arg Asn Leu His Leu
65 70

<210> 1430

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1430

Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met
1 5 10 15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys
20 25 30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys
35 40 45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala
50 55 60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys
65 70 75 80


```
<210> 1432
<211> 84
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

```

Ala Pro His Arg Ala Cys Arg Leu Xaa Ser Pro Arg Gln Val Thr Trp
20 25 30

Leu Thr Pro Ala Glu Ala Leu Pro Leu Xaa Pro Cys Pro Ser Gln Cys
35 40 45

Gly Ala His Cys Arg Gln His Gly Pro Glu Arg Glu Gly Ser Ala Xaa
50 55 60

Pro Ala Ala Leu Leu Arg Pro Gly Leu Pro Val Phe Gly His Xaa Leu
65 70 75 80

<400> 1433

Glu Ala Gly Val Leu Leu Asp Leu Pro Thr
20 25

<400> 1434

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro
20 25 30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr
35 40 45

Glu Gly Lys Tyr Phe Thr. Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys
50 55 60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr
65 70 75 80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu
85 90 95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu
100 105 110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr
115 120 125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser
130 135

<400> 1435

<400> 1437

Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu
1 5 10 15

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr
20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro
35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe
50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala
65 70 75 80

Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu
85 90 95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys
100 105 110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr
115 120 125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu
130 135 140

Gln
145

<210> 1438

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1438

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
65 70 75 80

<210> 1439

Subjects

Parameter	Control (N=5)	Experimental (N=5)
Age (years)	28.4 ± 1.2	29.1 ± 1.5
Height (cm)	178.5 ± 5.2	179.2 ± 4.8
Weight (kg)	75.3 ± 8.1	76.1 ± 7.9
BMI (kg/m²)	23.2 ± 2.1	23.5 ± 2.0
VO _{2max} (L/min)	3.2 ± 0.3	3.1 ± 0.4
Lactate threshold (mmol/L)	2.1 ± 0.2	2.2 ± 0.3
Heart rate (b/min)	155 ± 10	158 ± 12
Stroke volume (L)	1.2 ± 0.1	1.3 ± 0.2
Cardiac output (L/min)	3.8 ± 0.4	4.0 ± 0.5
Systemic vascular resistance (dyn/cm²)	1200 ± 150	1150 ± 180
Arterial pressure (mmHg)	120 ± 10	122 ± 12
Venous pressure (mmHg)	10 ± 5	11 ± 6
Capillary pressure (mmHg)	35 ± 5	36 ± 6
Interstitial pressure (mmHg)	-5 ± 2	-4 ± 3
Transmembrane pressure (mmHg)	25 ± 3	26 ± 4
Permeability coefficient (cm/s)	0.001 ± 0.0005	0.0015 ± 0.0008
Reflection coefficient (dimensionless)	0.95 ± 0.05	0.98 ± 0.06
Osmotic pressure (mmHg)	280 ± 10	282 ± 12
Hydrostatic pressure (mmHg)	15 ± 2	16 ± 3
Net fluid balance (mL/min)	0.5 ± 0.2	0.8 ± 0.3

<400> 1439

Val Phe Val Phe Leu Arg Pro Ser His Ser Val Ala Gln Ala Gly Val
20 25 30

Pro Leu His Phe Tyr Phe Phe Ile Gln Gln Val Leu Ile Lys Cys Ala
35 40 45

Leu Tyr Gln Val Leu Ser Ser Xaa Leu Gly Tyr Asn Gly Asp Gln Gly
50 55 60

Asp Cys Arg Phe Trp Gln Gly Lys Leu Thr Ser Asn Thr Ala Thr Arg
65 70 75 80

His Ser Glu Thr Leu Ser Leu Leu Glu Glu Leu
85 90

```
<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1440

Met Ser Ala Lys Gln Val Thr Ser Gln Ser Ser Leu Ser Glu Asn Asp
1 5 10 15

Gly Phe Gln Ala Phe Val Trp Trp Leu Leu Gly Ile Gly Ala Leu Thr
20 25 30

Phe Ala Leu Leu Met Ser Ala Arg Met Gly Ile Phe Gln Glu Thr Leu
35 40 45

Tyr Lys Arg Phe Gly Lys His Ser Lys Glu Ala Leu Phe Tyr Asn His
50 55 60

Ala Leu Pro Leu Pro Gly Phe Val Phe Leu Ala Ser Asp Ile Tyr Asp
65 70 75 80

His Ala Val Leu Phe Asn Lys Ser Glu Leu Tyr Glu Ile Pro Val Ile
85 90 95

Gly Val Thr Leu Pro Ile Met Trp Phe Tyr Leu Leu Met Asn Ile Ile

110

Arg Leu Pro Xaa Arg His Ala Arg Ser
130 135

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Leu Cys Lys Ser Gln Met Leu Leu Ser Ile Ala Phe Cys Asp
85 90

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala
35 40 45

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys
50 55 60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala
65 70 75 80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile
85 90 95

Lys Trp Cys Leu Phe Val Cys Xaa
100

<210> 1443
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1443
Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His
1 5 10 15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn
20 25 30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala
35 40 45

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys
50 55 60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala
65 70 75 80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile
85 90 95

Lys Trp Cys Leu Phe Val Cys Xaa
100

<210> 1444
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1444
Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser
1 5 10 15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu
20 25 30

Figure 3 consists of 12 bar charts arranged in a 6x2 grid. Each chart displays the percentage of respondents for a specific variable across four groups: Control, Low, High, and Very High. The variables are as follows:

- 1. Age:** 18-24, 25-34, 35-44, 45-54, 55-64, 65+.
- 2. Sex:** Male, Female.
- 3. Education:** High school or less, Some college, Bachelor's, Graduate.
- 4. Income:** Less than \$10,000, \$10,000-\$19,999, \$20,000-\$29,999, \$30,000-\$39,999, \$40,000-\$49,999, \$50,000-\$59,999, \$60,000-\$69,999, \$70,000-\$79,999, \$80,000-\$89,999, \$90,000-\$99,999, \$100,000 or more.
- 5. Marital status:** Married, Single, Divorced, Widowed.
- 6. Political affiliation:** Democrat, Republican, Independent.
- 7. Attitude toward gay and lesbian people:** Very good, Good, Fair, Poor, Very poor.
- 8. Attitude toward AIDS:** Very good, Good, Fair, Poor, Very poor.
- 9. Attitude toward HIV:** Very good, Good, Fair, Poor, Very poor.
- 10. Attitude toward AIDS/HIV:** Very good, Good, Fair, Poor, Very poor.
- 11. Attitude toward AIDS/HIV:** Very good, Good, Fair, Poor, Very poor.
- 12. Attitude toward AIDS/HIV:** Very good, Good, Fair, Poor, Very poor.

The charts show that the 'Very High' group generally has higher percentages in the 'Very good' and 'Good' categories for attitudes toward gay and lesbian people, AIDS, HIV, and AIDS/HIV, compared to the other groups. Conversely, the 'Very High' group has higher percentages in the 'Poor' and 'Very poor' categories for attitudes toward AIDS/HIV in charts 11 and 12.

<400> 1445
Ser Gln Arg Ser Gly Arg Leu Arg Gln Glu Asp His Leu Arg Ser Gly
1 5 10 15
Val Gln Cys Gly Gln His Ser Lys Thr Leu Ser Leu Gln Lys Asn Leu
20 25 30
Lys Leu Ser Trp His Trp Trp Arg Met Ala Val Val Pro Ala Thr Trp
35 40 45
Glu Val Glu Val Gly Gly Ser Leu Glu Pro Arg Ser Ser Ser Leu Gln
50 55 60

```

<400> 1446
Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser
  1              5              10              15
Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu
      20              25              30
Arg Val Leu Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro
      35              40              45
Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr
      50              55              60
Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu
      65              70              75              80
Arg Gly Arg Tyr Ile Gly Ser Ser

```


<210> 1447
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1447
 Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu
 1 5 10 15
 Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
 20 25 30
 Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
 35 40 45
 Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Xaa Phe Gln Ala
 50 55 60
 Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
 65 70 75 80
 Asn Phe

<210> 1448
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1448
 Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu
 1 5 10 15
 Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
 20 25 30
 Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
 35 40 45
 Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Pro Phe Gln Ala
 50 55 60
 Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
 65 70 75 80
 Asn Phe


```
<210> 1450
<211> 50
<212> PRT
<213> Homo sapiens
```

```

<400> 1450
Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu
  1                               5                               10                               15
Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu
                               20                               25                               30
Xaa Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala
  35                               40                               45
Leu Leu
  50

```

875


```

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1451
Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu Leu Gln
 1           5           10           15

Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu Xaa Ala
      20           25           30

Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala Leu Tyr
      35           40           45

Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln Ile Lys Ala
      50           55           60

Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg Asn Ser Gly
      65           70           75           80

Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln Ala Tyr Val
      85           90           95

Val Leu Gly Ser Ala Pro Ser Val Ala Ser Met Ile Ala Ala Tyr Ser
      100           105           110

Ala Thr Xaa Xaa Cys Ala Asp Leu Ala Xaa Gly Leu Gln Xaa Xaa Arg
      115           120           125

His Pro
      130

```


[illegible]

Leu Asn Pro Trp Pro Leu Ile Val Tyr Leu Cys Trp Asp Pro Lys Glu
1 5 10 15

```
<210> 1453
<211> 226
<212> PRT
<213> Homo sapiens
```

Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg
1 5 10 15

Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly
20 25 30

Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr
35 40 45

Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln
50 55 60

Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg
65 70 75 80

Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln
85 90 95

Ala Tyr Val Val Leu Gly Ser Ala Thr Leu Arg Arg Lys Tyr Asp Arg
100 105 110

Gly Leu Leu Ser Asp Glu Asp Leu Arg Gly Pro Gly Val Arg Pro Ser
115 120 125

Arg Thr Pro Ala Pro Asp Pro Gly Ser Pro Arg Thr Pro Pro Pro Thr
130 135 140

Ser Arg Thr His Asp Gly Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr
145 150 155 160

Met Phe Asn Phe Asp Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu
165 170 175

Glu Arg Glu Arg Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg
180 185 190

Gln Glu Tyr Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp
195 200 205

Thr Ala Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Ile Gly Phe

220

[illegible]

```
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<210> 1456
<211> 61
<212> PRT
<213> Homo sapiens
```

879

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

<400> 1457

Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu Asn Gln Cys
100 105 110

<400> 1458

Asn Gln Cys

Figure 1 consists of 12 histograms arranged in a single column, labeled $k=1$ through $k=12$. Each histogram shows the frequency of the number of non-zero elements in the vector x_k . The x-axis for all histograms is 'Number of non-zero elements' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The y-axis is 'Frequency' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The distributions are as follows:

- $k=1$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=2$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=3$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=4$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=5$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=6$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=7$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=8$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=9$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=10$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=11$: Peak at 0 (frequency 10), tail at 1 (frequency 1).
- $k=12$: Peak at 0 (frequency 10), tail at 1 (frequency 1).

•

•

•

<210> 1461
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser
 1 5 10 15
 Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu
 20 25 30
 Leu

<210> 1462
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1462
 Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser
 1 5 10 15
 Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu
 20 25 30
 Leu Gly Thr Glu Pro Ala Glu Ala Phe His Pro His Leu Pro Ile Leu
 35 40 45
 Leu Pro Pro Val Met Ala Cys Val Ala Asp Pro Phe Tyr Lys Ile Ala
 50 55 60
 Ala Arg Gly Pro Gly Gly Ala Ala Gly Ala Gly Ala Gly Pro Val Ala
 65 70 75 80
 Ala Ala Gln Ala Ser Asp Ala Gly Ser
 85

<210> 1463
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1463
 Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val
 1 5 10 15
 Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val
 20 25 30
 Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr
 35 40 45
 Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr

[illegible]

	50					55					60					
Val	Tyr	Met	Tyr	Ser	Phe	Tyr	Tyr	Tyr	Phe	Phe	Lys	Thr	Lys	Met	Tyr	
65					70					75					80	
Gly	Leu	Phe	Gln	Thr	Ser	Phe	Tyr	Phe	Gly	Tyr	Met	Ala	Val	Phe	Ser	
				85					90					95		
Thr	Ala	Leu	Gly	Ile	Met	Cys	Gly	Ala	Ile	Gly	Tyr	Met	Gly	Thr	Ser	
			100					105					110			
Ala	Phe	Val	Arg	Lys	Ile	Tyr	Thr	Asn	Val	Lys	Ile	Asp				
		115					120					125				

```
<210> 1464
<211> 125
<212> PRT
<213> Homo sapiens
```

```

<400> 1464
Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val
  1           5           10           15
Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val
           20           25           30
Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr
           35           40           45
Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr
  50           55           60
Val Tyr Met Tyr Ser Phe Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr
  65           70           75           80
Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser
           85           90           95
Thr Ala Leu Gly Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser
           100          105          110
Ala Phe Val Arg Lys Ile Tyr Thr Asn Val Lys Ile Asp
           115          120          125

```

```
<210> 1465
<211> 250
<212> PRT
<213> Homo sapiens
```

```

<400> 1465
Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
  1             5             10             15
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
  20             25             30

```


Pro Trp Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
50 55 60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
65 70 75 80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
85 90 95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
100 105 110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
115 120 125

Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
130 135 140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
145 150 155 160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
165 170 175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
180 185 190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
195 200 205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
210 215 220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
225 230 235 240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
245 250

<210> 1466
<211> 250
<212> PRT
<213> Homo sapiens

<400> 1466
Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
1 5 10 15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
20 25 30

Pro Trp Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys

Pro 50	His	Leu	Leu	Ser	Pro	Gln	Ile	Gln	Arg	Ser	Ala	His	Arg	Ala	Leu
Tyr 65	Arg	Arg	His	Val	Leu	Gly	Ile	Val	Leu	Gln	Gly	Pro	Ala	Leu	Cys 80
Phe	Ala	Ala	Ala	Ile 85	Phe	Ser	Leu	Phe	Phe 90	Val	Pro	Leu	Ser	Tyr 95	Leu
Leu	Met	Val	Thr 100	Val	Ile	Leu	Leu	Pro 105	Tyr	Val	Ser	Lys	Val 110	Thr	Gly
Trp	Cys	Arg 115	Asp	Arg	Leu	Leu	Gly 120	His	Arg	Glu	Pro	Ser 125	Ala	His	Pro
Val 130	Glu	Val	Phe	Ser	Phe 135	Asp	Leu	His	Glu	Pro 140	Leu	Ser	Lys	Glu	Arg
Val 145	Glu	Ala	Phe	Ser	Asp 150	Gly	Val	Tyr	Ala	Ile 155	Val	Ala	Thr	Leu	Leu 160
Ile	Leu	Asp	Ile	Cys 165	Glu	Asp	Asn	Val	Pro 170	Asp	Pro	Lys	Asp	Val 175	Lys
Glu	Arg	Phe 180	Ser	Gly	Ser	Leu	Val 185	Ala	Ala	Leu	Ser	Ala	Thr 190	Gly	Pro
Arg	Phe 195	Leu	Ala	Tyr	Phe	Gly	Ser 200	Phe	Ala	Thr	Val	Gly 205	Leu	Leu	Trp
Phe 210	Ala	His	His	Ser	Leu	Phe 215	Leu	His	Val	Arg	Lys 220	Ala	Thr	Arg	Ala
Met 225	Gly	Leu	Leu	Asn 230	Thr	Leu	Ser	Leu	Ala	Phe 235	Val	Gly	Gly	Leu	Pro 240
Leu	Ala	Tyr	Gln	Gln 245	Thr	Ser	Ala	Phe	Ala 250	Arg	Gln	Pro	Arg	Asp 255	Glu
Leu	Glu	Arg	Val 260	Arg	Val	Ser	Cys	Thr 265	Ile	Ile	Phe	Leu	Ala 270	Ser	Ile
Phe	Gln 275	Leu	Ala	Xaa	Trp	Thr 280	Thr	Ala	Leu	Leu	His	Gln 285	Ala	Glu	Thr
Leu 290	Gln	Pro	Ser	Val	Trp	Phe 295	Gly	Gly	Arg	Glu	His 300	Val	Leu	Met	Phe
Ala 305	Lys	Leu	Ala	Leu 310	Tyr	Pro	Cys	Ala	Ser	Leu 315	Leu	Ala	Phe	Ala	Ser 320
Thr	Cys	Leu	Leu	Ser 325	Arg	Phe	Ser	Val	Gly 330	Ile	Phe	His	Leu	Met 335	Gln
Ile	Ala	Val 340	Pro	Cys	Ala	Phe	Leu	Leu 345	Leu	Arg	Leu	Leu	Val 350	Gly	Leu
Ala	Leu 355	Ala	Thr	Leu	Arg	Val	Leu 360	Arg	Gly	Leu	Ala 365	Arg	Pro	Glu	His

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu
370 375 380

Pro Ala Pro Cys
385

<210> 1468
<211> 388
<212> PRT
<213> Homo sapiens

<400> 1468

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr
1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile
20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe
35 40 45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu
50 55 60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
65 70 75 80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu
85 90 95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
100 105 110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
115 120 125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg
130 135 140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu
145 150 155 160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys
165 170 175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro
180 185 190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
195 200 205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala
210 215 220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro
225 230 235 240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu

0983245 041001

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
100 105 110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser
115 120 125

Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly
130 135 140

Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile
145 150 155 160

Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu
165 170 175

Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro
180 185 190

Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu
195 200 205

Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp
210 215 220

Pro Glu Glu Pro Asp Gly Xaa Glu Leu Val Leu Gly Gly Ser Asp Pro
225 230 235 240

Ala His Tyr Ile Pro Pro Ser Pro Phe Val Pro Val Arg Ser Pro Pro
245 250 255

Met Ala Asp Pro Gln Gly
260

<210> 1470
<211> 145
<212> PRT
<213> Homo sapiens

<400> 1470
Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Leu Pro Leu
1 5 10 15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His
20 25 30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg
35 40 45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
50 55 60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly
65 70 75 80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
85 90 95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala
 195 200 205

Gln Phe Pro Gly
 210

<210> 1472
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1472
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1 5 10 15
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
 20 25 30
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
 35 40 45
 Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
 50 55 60
 Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
 65 70 75 80
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
 85 90 95
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
 100 105 110
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
 115 120 125
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
 130 135 140
 Ile Ser Ile Met Ile Cys
 145 150

<210> 1473
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1473
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1 5 10 15
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
 20 25 30
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
 35 40 45

65		70		75		80
Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile						
	85			90		95
Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu						
	100		105			110
Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile						
	115		120			125
Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys						
	130		135			140
Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe						
	145		150		155	160
Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala						
		165		170		175
Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val						
	180		185			190
Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys						
	195		200			205
Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys						
	210		215			220
Asp Asp Gly Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu						
	225		230		235	240
Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys						
		245		250		255
Lys Asp Val Pro Glu Glu Gln Glu His Met Arg Arg Trp Leu His Glu						
	260		265			270
Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro						
	275		280			285
Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys						
	290		295			300
Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu						
	305		310		315	320
Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn						
		325		330		335
Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys						
	340		345			350
Ala						

<210> 1476
<211> 80

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1476
Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser
1 5 10 15
Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu
20 25 30
Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly
35 40 45
Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln
50 55 60
Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys
65 70 75 80

<210> 1477
<211> 415
<212> PRT
<213> Homo sapiens

<400> 1477
Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly
1 5 10 15
Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro
20 25 30
Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys
35 40 45
Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp
50 55 60
Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg
65 70 75 80
Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser
85 90 95
His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala
100 105 110
Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys
115 120 125
Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val

130	135	140
Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn 145 150 155 160		
Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr 165 170 175		
Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe 180 185 190		
Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser 195 200 205		
Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg 210 215 220		
Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn 225 230 235 240		
Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Pro Trp Leu Arg 245 250 255		
Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn 260 265 270		
Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp 275 280 285		
Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu 290 295 300		
Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly 305 310 315 320		
Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser 325 330 335		
Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln 340 345 350		
Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser 355 360 365		
Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly 370 375 380		
Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val 385 390 395 400		
Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly 405 410 415		

<210> 1478.
 <211> 86
 <212> PRT
 <213> Homo sapiens

Figure 1 shows the typical \log_{10} of the mean of the number of bacteria per ml of water versus time for the 100°C and 121°C treatments. The 100°C treatment was not effective in reducing the number of bacteria in the water. The 121°C treatment was effective in reducing the number of bacteria in the water. The 121°C treatment was effective in reducing the number of bacteria in the water.

```
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1480
Leu Ile Ile Lys Lys Gly Lys Ile Trp Phe Pro Glu Lys Arg Pro Ile
1 5 10 15

Xaa Asn Asn Leu Ser Pro Lys Pro Cys His Asn Asn Ile Ser Ala Leu
35 40 45

Glu Ile Lys Ser Leu Cys Phe Leu Cys Ile Leu Leu Arg His Xaa Tyr
50 55 60

Ser Phe Asn Thr Tyr Leu Lys Asn Leu Leu Arg Arg Phe Phe Ile Ile
65 70 75 80

Val Leu Gln Lys Thr Met Tyr Lys Leu
85

```

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

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[illegible]

899

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly
 325 330 335
 His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile
 340 345 350
 Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro
 355 360 365
 Pro Arg
 370

<210> 1482
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 1482
 Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys
 1 5 10 15
 Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala
 20 25 30
 Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp
 35 40 45
 Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
 50 55 60
 Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr
 65 70 75 80
 Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp
 85 90 95
 Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp
 100 105 110
 Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly
 115 120 125
 Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr
 130 135 140
 Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys
 145 150 155 160
 Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala
 165 170 175
 Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
 180 185 190
 Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp
 195 200 205

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[illegible]

<210> 1483

<212> PRT

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1483

Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala
1 5 10 15

Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly
20 25 30

Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
35 40 45

Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe
50 55 60

Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu
65 70 75 80

Figure 1 consists of 12 histograms arranged in a single row. Each histogram represents the frequency distribution of the number of non-zero elements in a vector x for a specific value of n . The x-axis for all histograms is 'Number of non-zero elements in x ' with major ticks at 0, 20, 40, 60, 80, 100, and 120. The y-axis is 'Frequency' with major ticks at 0, 20, 40, 60, 80, and 100. The histograms are labeled with n values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As n increases, the distribution of non-zero elements becomes more concentrated around a central value (approximately 60-70) and the overall frequency increases.

<211> 85

<212> PRT

<213> Home

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1484

Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu Leu Leu Ile Ser Arg
1 5 10 15

Ser Gln Thr Phe Gly Tyr Asn Gly Arg Ala Cys Gln Glu Trp Leu Pro
20 25 30

Xaa Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
35 40 45

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
50 55 60

210

215

220

Thr Lys Pro Ala Leu
225

<210> 1486

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1486

Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala
1 5 10 15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys
20 25 30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn
35 40 45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Ser Lys Tyr Ser Leu Ile Leu
50 55 60

Arg Tyr Trp Tyr Leu Gly Leu Gln His Thr Asn Phe Gly Val Asp Thr
65 70 75 80

Ile Gln Pro Ile Thr Asn Cys Ala His Glu Met Ile Tyr
85 90

<210> 1487

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

20					25					30					
Leu	Ala	Arg	Met	Glu	Ala	Val	Val	Asn	Leu	Tyr	Gln	Glu	Val	Met	Lys
		35					40					45			
His	Ala	Asp	Pro	Arg	Ile	Gln	Gly	Tyr	Pro	Leu	Met	Gly	Ser	Pro	Leu
		50				55					60				
Leu	Met	Thr	Ser	Ile	Leu	Leu	Thr	Tyr	Val	Tyr	Phe	Val	Leu	Ser	Leu
		65				70					75				80
Gly	Pro	Arg	Ile	Met	Ala	Asn	Arg	Lys	Pro	Phe	Gln	Leu	Arg	Gly	Phe
				85					90					95	
Met	Ile	Val	Tyr	Asn	Phe	Ser	Leu	Val	Ala	Leu	Ser	Leu	Tyr	Ile	Val
			100					105					110		
Tyr	Glu	Phe	Leu	Met	Ser	Gly	Trp	Leu	Ser	Thr	Tyr	Thr	Trp	Arg	Cys
		115					120					125			
Asp	Pro	Val	Asp	Tyr	Ser	Asn	Ser	Pro	Glu	Ala	Leu	Arg	Met	Val	Arg
		130				135					140				
Val	Ala	Trp	Leu	Phe	Leu	Phe	Ser	Lys	Phe	Ile	Glu	Leu	Met	Asp	Thr
				150						155					160
Val	Ile	Phe	Ile	Leu	Arg	Lys	Lys	Asp	Gly	Gln	Val	Thr	Phe	Leu	His
				165					170					175	
Val	Phe	His	His	Ser	Val	Leu	Pro	Trp	Ser	Trp	Trp	Trp	Gly	Val	Lys
			180					185					190		
Ile	Ala	Pro	Gly	Gly	Met	Gly	Ser	Phe	His	Ala	Met	Ile	Asn	Ser	Ser
		195					200					205			
Val	His	Val	Ile	Met	Tyr	Leu	Tyr	Tyr	Gly	Leu	Ser	Ala	Phe	Gly	Pro
		210				215					220				
Val	Ala	Gln	Pro	Tyr	Leu	Trp	Trp	Lys	Lys	His	Met	Thr	Ala	Ile	Gln
				230						235					240
Leu	Ile	Gln	Phe	Val	Leu	Val	Ser	Leu	His	Ile	Ser	Gln	Tyr	Tyr	Phe
				245					250					255	
Met	Ser	Ser	Cys	Asn	Tyr	Gln	Tyr	Pro	Val	Ile	Ile	His	Leu	Ile	Trp
			260					265					270		
Met	Tyr	Gly	Thr	Ile	Phe	Phe	Met	Leu	Phe	Ser	Asn	Phe	Trp	Tyr	His
		275					280					285			
Ser	Tyr	Thr	Lys	Gly	Lys	Arg	Leu	Pro	Arg	Ala	Leu	Gln	Gln	Asn	Gly
		290				295					300				
Ala	Pro	Gly	Ile	Ala	Lys	Val	Lys	Ala	Asn						
				310											

<210>	1490
<211>	258

<212> PRT
 <213> Homo sapiens

<400> 1490

Met	Lys	His	Ala	Asp	Pro	Arg	Ile	Gln	Gly	Tyr	Pro	Leu	Met	Gly	Ser
1				5					10					15	
Pro	Leu	Leu	Met	Thr	Ser	Ile	Leu	Leu	Thr	Tyr	Val	Tyr	Phe	Val	Leu
			20					25					30		
Ser	Leu	Gly	Pro	Arg	Ile	Met	Ala	Asn	Arg	Lys	Pro	Phe	Gln	Leu	Arg
		35					40					45			
Gly	Phe	Met	Ile	Val	Tyr	Asn	Phe	Ser	Leu	Val	Ala	Leu	Ser	Leu	Tyr
	50					55					60				
Ile	Val	Tyr	Glu	Phe	Leu	Met	Ser	Gly	Trp	Leu	Ser	Thr	Tyr	Thr	Trp
65					70					75					80
Arg	Cys	Asp	Pro	Gln	Asp	Cys	Thr	Leu	Gly	Gln	Cys	Pro	Ser	Val	Pro
				85					90					95	
Ser	Pro	Pro	Thr	Pro	Val	Thr	Lys	Ala	Tyr	Val	Val	Arg	Thr	Glu	Gln
			100					105					110		
Gly	Thr	Gly	Pro	Pro	Leu	Pro	Thr	Ala	Ala	Leu	Gln	Gly	Pro	Arg	Leu
		115					120					125			
Trp	Phe	Leu	Thr	His	Phe	Pro	Arg	Ala	Ala	Pro	Gly	Met	Trp	Pro	His
	130					135					140				
Cys	Cys	Leu	Pro	Leu	Gln	Ser	Trp	Gly	Leu	Lys	Gly	Leu	Tyr	Ser	Tyr
145					150					155					160
Phe	Pro	Leu	Pro	Ala	Leu	Lys	Leu	Gly	Arg	Gly	Ala	Leu	Arg	Ala	Gly
				165					170					175	
Pro	Thr	Lys	Gly	Leu	Val	Ala	Phe	Phe	Leu	Thr	Gln	Lys	Arg	Ser	Ala
			180					185					190		
Ile	Met	Ser	Leu	Trp	Thr	Gln	Ser	His	Ser	Ser	Thr	Pro	His	Thr	Glu
		195					200					205			
Ala	Val	Ala	Ser	Gly	Pro	Lys	Val	Arg	Val	Gly	Gly	Gly	Leu	Gly	Ile
	210					215					220				
Gln	Pro	Val	Glu	Ala	Ala	Tyr	Ser	Thr	Cys	Val	Leu	Ile	Lys	Ser	Asp
225					230					235					240
Arg	Gly	Asn	Gln	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Leu	Glu	Asn	Tyr	Phe
				245					250					255	
Leu	Lys														

<210> 1491
 <211> 222
 <212> PRT

<213> Homo sapiens

<400> 1491

Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser
1 5 10 15
Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu
20 25 30
Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg
35 40 45
Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr
50 55 60
Ile Val Tyr Glu Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val
65 70 75 80
Thr Phe Leu His Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp
85 90 95
Trp Gly Val Lys Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met
100 105 110
Ile Asn Ser Ser Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser
115 120 125
Ala Phe Gly Pro Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met
130 135 140
Thr Ala Ile Gln Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser
145 150 155 160
Gln Tyr Tyr Phe Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile
165 170 175
His Leu Ile Trp Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn
180 185 190
Phe Trp Tyr His Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu
195 200 205
Gln Gln Asn Gly Ala Pro Gly Ile Ala Lys Val Lys Ala Asn
210 215 220

<210> 1492

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1492

Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val
1 5 10 15
Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro
20 25 30
Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val

The figure consists of seven vertically stacked panels, each representing a snapshot of the electron distribution function $f(v)$ at different times: $t=0$, $t=1$, $t=2$, $t=3$, $t=4$, $t=5$, and $t=8$. The horizontal axis for all panels is velocity v , ranging from -10 to 10. The vertical axis is $f(v)$, with scales varying between panels (e.g., 0-1.5 for $t=0$, 0-0.7 for $t=8$). At $t=0$, there is a single broad peak centered around $v \approx -5$. As time increases, this peak splits and moves towards lower velocities, while a new peak emerges and grows at higher velocities. By $t=8$, the distribution is clearly bimodal, with one peak near $v \approx -9$ and another near $v \approx 5$.

<221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1497
 Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile
 1 5 10 15
 Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His
 20 25 30
 Arg Glu Thr Asp Phe Gly Val Arg Val Arg Asp His Pro Trp Xaa
 35 40 45

<210> 1498
 <211> 394
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (194)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (200)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (225)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (237)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1498
 Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
 1 5 10 15

Gly	Gly	Ser	Pro	Trp	Leu	Leu	Ile	Ile	Thr	Val	Phe	Leu	Arg	Ser	Tyr	
			20					25								30
Lys	Phe	Ala	Ile	Ser	Leu	Cys	Thr	Ser	Tyr	Leu	Cys	Val	Ser	Phe	Leu	
		35					40					45				
Lys	Thr	Ile	Phe	Pro	Ser	Gln	Asn	Gly	His	Asp	Gly	Ser	Thr	Asp	Val	
	50					55					60					
Gln	Gln	Arg	Ala	Arg	Arg	Ser	Asn	Xaa	Arg	Arg	Gln	Glu	Gly	Ile	Lys	
	65				70					75					80	
Ile	Val	Leu	Glu	Asp	Ile	Phe	Thr	Leu	Trp	Arg	Gln	Val	Glu	Thr	Lys	
				85					90					95		
Val	Arg	Ala	Lys	Ile	Arg	Lys	Met	Lys	Val	Thr	Thr	Lys	Val	Asn	Arg	
			100					105					110			
His	Asp	Lys	Ile	Asn	Gly	Lys	Arg	Lys	Thr	Ala	Lys	Glu	His	Leu	Arg	
		115					120					125				
Lys	Leu	Ser	Met	Lys	Glu	Arg	Glu	His	Gly	Glu	Lys	Glu	Arg	Gln	Val	
	130					135					140					
Ser	Glu	Ala	Glu	Glu	Asn	Gly	Lys	Leu	Asp	Met	Lys	Glu	Ile	His	Thr	
145					150					155					160	
Tyr	Met	Glu	Met	Phe	Gln	Arg	Ala	Gln	Ala	Leu	Arg	Arg	Arg	Ala	Glu	
				165					170					175		
Asp	Tyr	Tyr	Arg	Cys	Lys	Ile	Thr	Pro	Ser	Ala	Arg	Lys	Pro	Leu	Cys	
			180					185					190			
Asn	Xaa	Val	Arg	Met	Ala	Ala	Xaa	Glu	His	Arg	His	Ser	Ser	Gly	Leu	
		195					200					205				
Pro	Xaa	Trp	Pro	Tyr	Leu	Thr	Ala	Glu	Thr	Leu	Lys	Asn	Arg	Met	Gly	
	210					215					220					
Xaa	Gln	Pro	Pro	Pro	Pro	Thr	Gln	Gln	His	Ser	Ile	Xaa	Asp	Asn	Ser	
225					230					235					240	
Leu	Ser	Leu	Lys	Thr	Pro	Pro	Glu	Cys	Leu	Leu	His	Pro	Leu	Pro	Pro	
				245					250					255		
Ser	Val	Asp	Asp	Asn	Ile	Lys	Glu	Cys	Pro	Leu	Ala	Pro	Leu	Pro	Pro	
			260					265					270			
Ser	Val	Asp	Asp	Asn	Leu	Lys	Glu	Cys	Leu	Leu	Val	Pro	Leu	Pro	Pro	
		275					280					285				
Ser	Pro	Leu	Pro	Pro	Ser	Val	Asp	Asp	Asn	Leu	Lys	Asp	Cys	Leu	Phe	
	290					295					300					
Val	Pro	Leu	Pro	Pro	Ser	Pro	Leu	Pro	Pro	Ser	Val	Asp	Asp	Asn	Leu	
305					310					315					320	
Lys	Thr	Pro	Pro	Leu	Ala	Thr	Gln	Glu	Ala	Glu	Ala	Glu	Lys	Pro	Pro	
				325					330					335		

Ile Gly Phe Leu Arg Arg Tyr Thr Phe Xaa Ile Leu Phe Cys Thr Ser
65 70 75 80

Xaa Leu Cys Val Ser Phe Leu Lys Thr Ile Phe Trp Ser Arg Asn Gly
85 90 95

His Asp Gly Ser Xaa Asp Val Gln Gln Arg Ala Trp Arg Ser Asn Arg
100 105 110

Ser Arg Gln Lys Gly Leu Arg Ser Ile Xaa Met His Thr Lys Lys Arg
115 120 125

Val Ser Ser Phe Arg Gly Asn Lys Ile Gly Leu Lys Asp Val Ile Thr
130 135 140

Leu Arg Arg His Val Glu Thr Lys Val Arg Ala Lys Ile Arg Lys Arg
145 150 155 160

Lys Val Thr Thr Lys Ile Asn Arg His Asn Lys Ile Asn Gly Lys Arg
165 170 175

Lys Thr Ala Arg Lys Gln Lys Met Phe Gln Arg Ala Gln Glu Leu Arg
180 185 190

Arg Arg Ala Glu Asp Tyr His Lys Cys Lys Val Arg Ser Phe Leu Pro
195 200 205

Ala Val Ala Gly
210

<210> 1500
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1500
Met Ala Thr Leu Val Trp Arg Leu Tyr Leu Leu Gln Pro Glu Leu Val
1 5 10 15

Leu Pro Ser Pro Pro Pro Pro Arg Phe Pro Gly Pro Val Gln Thr
20 25 30

Figure 1 consists of 11 bar charts, labeled (a) through (k), each representing a different socio-economic parameter. Each chart compares the distribution of this parameter for two consecutive seasons: 1996-1997 (black bars) and 1997-1998 (white bars). The x-axis for each chart represents the percentage of the population, and the y-axis represents the number of households. The charts show that the 1997-1998 season generally had a higher percentage of households in the higher categories of each parameter compared to the 1996-1997 season.

- (a) Age: The 1997-1998 season shows a higher percentage of households in the 18-24 and 25-34 age groups, while the 1996-1997 season shows a higher percentage in the 15-17 age group.
- (b) Sex: The 1997-1998 season shows a higher percentage of households with a male head of household, while the 1996-1997 season shows a higher percentage with a female head of household.
- (c) Education: The 1997-1998 season shows a higher percentage of households with a high school graduate or higher education level, while the 1996-1997 season shows a higher percentage with a less than high school graduate education level.
- (d) Income: The 1997-1998 season shows a higher percentage of households in the higher income brackets, while the 1996-1997 season shows a higher percentage in the lower income brackets.
- (e) Employment: The 1997-1998 season shows a higher percentage of households with a full-time or part-time worker, while the 1996-1997 season shows a higher percentage with a unemployed or retired household member.
- (f) Health: The 1997-1998 season shows a higher percentage of households with a good or excellent health status, while the 1996-1997 season shows a higher percentage with a fair or poor health status.
- (g) Insurance: The 1997-1998 season shows a higher percentage of households with health insurance, while the 1996-1997 season shows a higher percentage without health insurance.
- (h) Housing: The 1997-1998 season shows a higher percentage of households with a single-family home, while the 1996-1997 season shows a higher percentage with a multi-unit dwelling.
- (i) Transportation: The 1997-1998 season shows a higher percentage of households with a car or truck, while the 1996-1997 season shows a higher percentage with no vehicle.
- (j) Food: The 1997-1998 season shows a higher percentage of households with a higher food security score, while the 1996-1997 season shows a higher percentage with a lower food security score.
- (k) Recreation: The 1997-1998 season shows a higher percentage of households with a higher recreation score, while the 1996-1997 season shows a higher percentage with a lower recreation score.

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1501

Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr
20 25 30

Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
50 55 60

Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp
65 70 75 80

Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu
85 90 95

Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile
100 105 110

Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Val Cys Gly Phe
115 120 125

<211> 120

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1502
 Leu Glu Phe Lys Xaa Pro Xaa Xaa Gln Val Pro Pro Trp Xaa Trp Leu
 1 5 10 15
 Ser Leu Phe Lys Lys Tyr Arg Ser Ala Thr Ile Ala Asn Ala Arg Thr
 20 25 30
 Trp Val Phe Cys Ser Phe Phe Xaa Val Leu Ile Leu Leu Phe Leu Tyr
 35 40 45
 Asn Gly Val Ile Val Ile Asn Thr Asn Cys Ser Phe Trp Phe Ser Pro
 50 55 60
 His Cys His Phe Cys Pro Tyr Val Ser Leu Glu His Val Pro Gln Arg
 65 70 75 80
 Leu Trp Tyr Gln Ser Pro Val Pro Gly Leu Ile Ser Thr Ser His Ile
 85 90 95
 Thr Phe Val Met Phe Gln Ser Ser Tyr Glu Ala Cys Tyr Phe Phe Phe
 100 105 110
 Ile Pro Gln Ala Tyr Phe His Arg
 115 120

<210> 1503
 <211> 409
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val

1	5	10	15
Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr	20	25	30
Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val	35	40	45
Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala	50	55	60
Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp	65	70	75
Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu	85	90	95
Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile	100	105	110
Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser	115	120	125
Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe	130	135	140
Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala	145	150	155
Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser	165	170	175
Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr	180	185	190
Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile	195	200	205
Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln	210	215	220
Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser	225	230	235
Val Pro Leu Pro Pro Leu Ile Met Asn Cys Arg Thr Ile Met Glu Glu	245	250	255
Ile Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg	260	265	270
His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr	275	280	285
Ile Pro Asn Ser Leu Lys Arg Ser Asp Ser Pro Ala Ala Asp Ser Asp	290	295	300
Ala Ser Ser Leu His Glu Gln Pro Gln Gln Ile Ala Ile Lys Val Ser	305	310	315
Val His Pro Gln Ser Lys Lys Glu His Ala Asp Asp Gln Glu Gly Gly			

09833245 "041201

<211> 107

<213> Home

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1504

Ser Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro
1 5 10 15

Thr Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro
20 25 30

Glu Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala
35 40 45

Pro Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Xaa Xaa
50 55 60

Tyr Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln
65 70 75 80

His Xaa His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val
85 90 95

Ser Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
100 105

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' is a 2x2 grid of images. The 'Response' is a 2x2 grid of images. The 'Reaction time' is a 2x2 grid of images. The 'Stimulus' and 'Response' are labeled 'Stimulus' and 'Response' respectively. The 'Reaction time' is labeled 'Reaction time'.

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
100 105

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
100 105

Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu
1 5 10 15

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val
35 40 45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu
50 55 60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly
65 70 75 80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu
85 90 95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr
100 105

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Val Arg Ile Asp Ala Ser Gly Ser Leu Ala Ala Val Leu Pro Leu
1 5 10 15

Asn His Tyr Thr Ile Thr Glu Phe Asn Phe Leu Gln Phe Gln Gly Xaa
20 25 30

Thr Glu Leu Ser Ser Asp Ser Lys Ile Arg Ile Ser Asn Arg Glu Trp
35 40 45

Ile His Leu Arg Ile Gly Glu Thr Asp Ile His Asp Leu Lys Gln Lys
50 55 60

Ser Glu Thr Lys Leu Ile Asn
65 70

<211> 109

The diagram illustrates the experimental design and data analysis process. It starts with 'Experimental design' at the top, which leads to 'Data collection' and 'Data analysis'. 'Data collection' is subdivided into 'Data collection 1' and 'Data collection 2'. 'Data analysis' is subdivided into 'Data analysis 1' and 'Data analysis 2'. Arrows indicate the flow of information and data between these stages.


```

<400> 1512
Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr
  1             5             10             15

Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Gly Ser
      20             25             30

Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val
      35             40             45

Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His
  50             55             60

Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val
  65             70             75             80

Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala
      85             90             95

Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr
      100             105             110

Gly Ser Arg
      115

```

<400> 1513
Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr
1 5 10 15

[illegible]

Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1 5 10 15

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met
35 40 45

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val
65 70 75 80

Thr His Ser Ile Trp His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu
100 105 110

Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr
130 135 140

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<210> 1517
<211> 147
<212> PRT
<213> Homo sapiens
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Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1 5 10 15

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met
35 40 45

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val

[illegible][illegible][illegible]

50

55

60

Ile Ser Trp Asp Arg Asn Arg Asn Gly Ile Gly Ile Ser Lys Ser
65 70 75

<210> 1524

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1524

Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala
1 5 10 15

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly
20 25 30

Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro
35 40 45

Tyr Arg Val Met Gly Gln Leu His Ser Ser Thr Lys Gly Phe Ser Phe
50 55 60

Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro
65 70 75 80

Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Val Pro Thr Val Ser
85 90 95

Cys Pro Gly Tyr Cys Pro Ser Cys Phe Ser Val Ser Cys Leu Cys Phe
100 105 110

Thr Thr Gly Pro Ser Ser Asn Ser Ala
115 120

<210> 1525

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1525

Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe
1 5 10 15

Cys Phe Xaa Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe
20 25 30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln
35 40 45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg

50

55

60

Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu
65 70 75 80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile
85 90

<210> 1526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1526

Ser Thr Leu Xaa Val Thr Phe Ile Cys Ser Ser Arg Xaa Leu Leu Arg
1 5 10 15

Glu Arg Gly Ala Val Leu Lys Thr Asn Pro Ile Pro Ile Leu Leu Lys
20 25 30

Lys Pro Leu Leu Cys Pro Ser Phe Ile His Asn Leu Val Pro His Pro
35 40 45

His Leu Pro Gln Leu Leu Leu Phe Ser Asn Phe Leu Cys Arg Cys Pro
50 55 60

Tyr His
65

<210> 1527

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1527

Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe
1 5 10 15

Cys Phe Val Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe
20 25 30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln
35 40 45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg
50 55 60

Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu
65 70 75 80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile
85 90

<210> 1528

<211> 336

<212> PRT

<213> Homo sapiens

<400> 1528

Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu
1 5 10 15

Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro
20 25 30

Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln
35 40 45

Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro
50 55 60

Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala
65 70 75 80

Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly
85 90 95

Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala
100 105 110

Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe
115 120 125

Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala
130 135 140

Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro
145 150 155 160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser
165 170 175

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly
180 185 190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val
195 200 205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Gln
210 215 220

Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly
225 230 235 240

[illegible]

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<210> 1531
<211> 219
<212> PRT
<213> Homo sapiens
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<400> 1531
Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
1 5 10 15

Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu
35 40 45

Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp
65 70 75 80

Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
85 90 95

Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro
100 105 110

Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
115 120 125

Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp
130 135 140

Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr
145 150 155 160

Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
165 170 175

Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
180 185 190

Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
195 200 205

Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
210 215

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
1 5 10 15

Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
35 40 45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
50 55 60

Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
65 70 75 80

Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
85 90 95

Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
100 105 110

Pro	Ser	Thr	Asp	Val	Gln	Thr	Asp	Pro	Gln	Thr	Leu	Lys	Pro	Ser	Gly
		115					120					125			

Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
130 135 140

Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
145 150 155 160

Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
165 170 175

Cys Arg

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<210> 1533
<211> 152
<212> PRT
<213> Homo sapiens
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Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp
1 5 10 15

Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
20 25 30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg

35	40	45
Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr		
50	55	60
Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser		
65	70	75
Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu		
	85	90
Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu		
	100	105
Arg Gly Gly Phe Leu Gly Ser Ser Gln Asp Arg Ser Ala Tyr Gln Thr		
	115	120
Ile Asp Ser Ala Glu Ala Pro Ala Asp Pro Phe Ala Val Pro Glu Gly		
	130	135
Arg Ser Gln Asp Ala Arg Gly Tyr		
145	150	
<210> 1534		
<211> 159		
<212> PRT		
<213> Homo sapiens		
<400> 1534		
Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp		
1	5	10
Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp		
	20	25
Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg		
	35	40
Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr		
50	55	60
Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser		
65	70	75
Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu		
	85	90
Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu		
	100	105
Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser Ser Gln		
	115	120
Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro Ala Asp		
	130	135
Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly Tyr		
145	150	155

Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp
1 5 10 15

Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu
35 40 45

Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe
65 70 75 80

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<210> 1536
<211> 64
<212> PRT
<213> Homo sapiens
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Ser Ala Thr His Gln Gln Ala Leu Val Cys Asp Val Leu Leu Pro Val
1 5 10 15

Tyr Phe Ile Phe Phe Phe Ser Cys Val Thr Ser Val Thr Ser Gly Leu
35 40 45

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<210> 1537
<211> 91
<212> PRT
<213> Homo sapiens
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Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp
1 5 10 15

95

Val	Xaa	Pro	His	Cys	Ser	Leu	Xaa	Cys	Xaa	Phe	Leu	Ile	Thr	Met	Met
			100					105					110		

~<210> 1539

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1539

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn
1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe
20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile
50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser
65 70 75 80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu
85 90 95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp
100 105 110

val

<210> 1540

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1540

Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn
1 5 10 15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe
20 25 30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
35 40 45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile
50 55 60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser
 65 70 75 80
 Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu
 85 90 95
 Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp
 100 105 110
 Val

<210> 1541
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 1541
 Met Arg Met Ser Leu Ala Asp Ser Leu Ala Cys Ser Val Cys Val Ala
 1 5 10 15
 Leu Thr Ala Ala Ala Arg Leu Leu Arg Ser Arg Pro Ser Ser Cys Ser
 20 25 30
 Ser Phe Ser Trp Ile Ser Gly Thr Ser Ser Ser Pro Ser Phe Leu Gly
 35 40 45
 Ser Phe Thr Ser Leu Leu Gly Ser Ser Leu Ser Ser Leu Gly Asp Ser
 50 55 60
 Leu Leu Gly Arg Gly Thr Leu Gly Asn Phe Trp Glu Val Leu Ile Ser
 65 70 75 80
 Thr Ser Thr Ser Ser Trp Ala Asp Phe Ser Ser Leu Val Ser Thr Ser
 85 90 95
 Pro Lys Val Arg Val Pro Leu Arg Pro Ile Phe Thr Cys Phe Leu
 100 105 110

<210> 1542
 <211> 148
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

[illegible]

100

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<210> 1544
<211> 165
<212> PRT
<213> Homo sapiens
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942

<220>
 <221> SITE
 <222> (176)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (192)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (294)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (302)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1545
 Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
 1 5 10 15
 Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
 20 25 30
 Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
 35 40 45
 Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
 50 55 60
 Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
 65 70 75 80
 Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr
 85 90 95
 Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
 100 105 110
 Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
 115 120 125

Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
 130 135 140
 Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn
 145 150 155 160
 Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Xaa
 165 170 175
 Xaa Leu Xaa Leu Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Xaa
 180 185 190
 Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys
 195 200 205
 Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu
 210 215 220
 Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu
 225 230 235 240
 Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr
 245 250 255
 Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu
 260 265 270
 Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp
 275 280 285
 Arg Lys His Ile Asp Xaa Thr Asn Xaa Asn Lys Arg Glu Xaa Ile
 290 295 300

<210> 1546
 <211> 1
 <212> PRT
 <213> Homo sapiens

<400> 1546
 Met
 1

<210> 1547
 <211> 547
 <212> PRT
 <213> Homo sapiens

<400> 1547
 Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
 1 5 10 15

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
 20 25 30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn

0903245 "041201

35	40	45
Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys		
50	55	60
Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu		
65	70	75
Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr		
	85	90
		95
Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr		
	100	105
		110
Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu		
	115	120
		125
Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser		
	130	135
		140
Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn		
	145	150
		155
Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Val		
	165	170
		175
Ser Leu Ser Leu Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Leu		
	180	185
		190
Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys		
	195	200
		205
Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu		
	210	215
		220
Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu		
	225	230
		235
Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr		
	245	250
		255
Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu		
	260	265
		270
Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp		
	275	280
		285
Arg Lys His Ile Asp Val Thr Asn Cys Asn Lys Arg Glu Lys Ile Glu		
	290	295
		300
Glu Thr Cys Gln Val Gly Met Lys Pro Pro Val Pro Gly Gly Tyr Thr		
	305	310
		315
Leu Gln Gly Lys Trp Ile Thr Thr Phe Cys Asn Gln Val Gln Leu Asp		
	325	330
		335
Thr Ile Lys Ile Asn Gly Cys Leu Lys Gly Lys Leu Ile Tyr Leu Leu		
	340	345
		350
Gly Asp Ser Thr Leu Arg Gln Trp Ile Tyr Tyr Phe Pro Lys Val Val		

<220>
 <221> SITE
 <222> (243)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548

Met	Ala	Ser	Ala	Val	Arg	Gly	Ser	Arg	Pro	Trp	Pro	Arg	Leu	Gly	Leu
1				5					10					15	
Gln	Leu	Gln	Phe	Ala	Ala	Leu	Leu	Leu	Gly	Thr	Leu	Ser	Xaa	Gln	Val
			20					25					30		
His	Thr	Leu	Arg	Pro	Glu	Asn	Leu	Leu	Leu	Val	Ser	Thr	Leu	Asp	Gly
		35					40					45			
Ser	Leu	His	Ala	Leu	Ser	Lys	Gln	Thr	Gly	Asp	Leu	Lys	Trp	Thr	Leu
	50					55					60				
Arg	Asp	Asp	Pro	Val	Ile	Glu	Gly	Pro	Met	Tyr	Val	Thr	Glu	Met	Ala
	65				70					75					80
Phe	Leu	Ser	Asp	Pro	Ala	Asp	Gly	Ser	Leu	Tyr	Ile	Leu	Gly	Thr	Gln
				85					90					95	
Lys	Gln	Gln	Gly	Leu	Met	Lys	Leu	Pro	Phe	Thr	Ile	Pro	Glu	Leu	Val
			100					105					110		
His	Ala	Ser	Pro	Cys	Arg	Ser	Ser	Asp	Gly	Val	Phe	Tyr	Thr	Gly	Arg
		115					120					125			
Lys	Gln	Asp	Ala	Trp	Phe	Val	Val	Asp	Pro	Glu	Ser	Gly	Glu	Thr	Gln
	130					135					140				
Met	Thr	Leu	Thr	Thr	Glu	Gly	Pro	Ser	Thr	Pro	Arg	Leu	Tyr	Ile	Gly
	145				150					155					160
Arg	Thr	Gln	Tyr	Thr	Val	Thr	Met	His	Asp	Pro	Arg	Ala	Pro	Ala	Leu
				165					170					175	
Arg	Trp	Asn	Thr	Thr	Tyr	Arg	Arg	Tyr	Ser	Thr	Pro	Pro	Met	Asp	Gly
		180						185					190		
Ser	Thr	Gly	Lys	Tyr	Met	Ser	Gln	Leu	Gly	Val	Leu	Arg	Glu	Gly	Pro
		195					200					205			
Ala	Ala	His	Xaa	Gly	Thr	Pro	Gly	Ser	Gly	Thr	Xaa	Leu	Leu	Asp	Thr
	210					215					220				
Arg	Asn	Leu	Gly	Arg	Ala	Leu	Gly	Asn	Gly	Pro	Ala	Thr	Pro	Leu	Gly
	225				230					235					240
Thr	Lys	Xaa	Arg	Ala	Trp										
				245											

<210> 1549

<211> 473

<212> PRT

<213> Homo sapiens

[illegible]

<210> 1550

<212> PRT

Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu
1 5 10 15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu
20 25 30

950

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro
 35 40 45
 Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His
 50 55 60
 Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu
 65 70 75 80
 Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala
 85 90 95
 Leu Ala

<210> 1551
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 1551
 Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu
 1 5 10 15
 Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu
 20 25 30
 His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro
 35 40 45
 Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His
 50 55 60
 Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu
 65 70 75 80
 Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala
 85 90 95
 Leu Ala

<210> 1552
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1552
 Met Gly Val Leu Trp Tyr Thr Phe Trp Tyr Thr Phe Thr Leu Leu Glu
 1 5 10 15
 Cys Ser Arg Ser Ser Asn Asp Ser Arg Thr Leu Val Leu Ile Cys Leu
 20 25 30
 Ser Leu Leu Gly Phe Asp Phe Val Arg Val Leu Asn Ile Lys Leu Ala

35

40

45

Val Gly Glu Ser Thr Leu His Met Leu Ser Leu Pro Phe Ser Leu Arg
50 55 60

Leu Ser Pro Ala Leu Pro Phe Ser Pro Phe Leu Leu Leu Met Asn Lys
65 70 75 80

Pro Leu Ser Asp Val Gln Tyr Phe Asn Leu His Phe Ala Gly
85 90

<210> 1553

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1553

Xaa Xaa Tyr Asp Glu Lys Leu Ile Phe Ile Gln Ile Leu Gln Thr Lys
1 5 10 15

Ala Thr Asp Lys Tyr Ser Glu Gln Val Ser Gln Val Gly Pro Gly Ala
20 25 30

Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly
35 40 45

Ser

<210> 1554

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1554

Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu
1 5 10 15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg
20 25 30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr
 35 40 45
 Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr
 50 55 60
 Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro
 65 70 75 80
 His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro
 85 90 95
 Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr
 100 105 110
 Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val
 115 120 125
 Glu Trp Glu His Leu Ser Pro Phe Asn Thr Ala Xaa Ala
 130 135 140

<210> 1555
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1555
 Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu
 1 5 10 15
 Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg
 20 25 30
 Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr
 35 40 45
 Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr
 50 55 60
 Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro
 65 70 75 80
 His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro
 85 90 95
 Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr
 100 105 110
 Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val
 115 120 125
 Glu Trp Glu His Leu Ser Pro Ser Asn Thr Ala Gly Ala
 130 135 140

<210> 1556
 <211> 93

<212> PRT
<213> Homo sapiens

<400> 1556

Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
1 5 10 15
Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu
20 25 30
Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
35 40 45
Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val
50 55 60
Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly
65 70 75 80
His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu
85 90

<210> 1557
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1557

Glu Glu His Gly Ile Thr Ser Val Ile Phe Leu Pro Gln Val His Asn
1 5 10 15
Leu Asn Leu Ile Ile Arg Lys His Gln Thr Asn Pro Asn Gln Glu Thr
20 25 30
Leu Tyr Lys Ile Met Thr Cys Asp Pro Gln Asn Leu Gln Gly His Glu
35 40 45
Gln Gln Gly Lys Thr Glu Asp Lys Cys Thr Val
50 55

<210> 1558
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1558

Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
1 5 10 15
Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu
20 25 30
Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
35 40 45
Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val

50

55

60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly
 65 70 75 80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu
 85 90

<210> 1559

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1559

Met Leu Leu Gln Arg Thr Arg Phe Leu Leu Leu Phe Phe Ser Phe Val
 1 5 10 15

Ser Ser Phe Phe Leu Ser Leu Pro Ser Phe Ser Leu Phe Phe Leu Phe
 20 25 30

Leu Ser Leu Ser Leu Phe Cys Ile His Val Ala Ala Lys Asp Met Ile
 35 40 45

Ser Ser Phe Phe Ser Leu Pro Phe Ser Phe Leu Ser Phe Xaa Leu Ser
 50 55 60

Phe Leu Leu Pro Ser Phe Ser Phe Phe Tyr Phe Phe Phe Phe Trp Leu
 65 70 75 80

Ser Phe Phe Phe Xaa Ser Lys Xaa Leu Ala Leu Val Pro Lys Xaa Gly
 85 90 95

Met Gln Xaa Val.

<210> 1560
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1560
 Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
 1 5 10 15
 Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
 20 25 30
 Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
 35 40 45
 Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Tyr Ser
 50 55 60
 Trp Cys Thr Pro Arg Leu Xaa Ser Trp Leu Arg Asp Thr Pro Ser Pro
 65 70 75 80
 Leu Ala Ser Gly Thr Xaa Pro
 85

<210> 1561
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1561
 Val Arg Ala Met Phe Gly Phe Leu Ala Cys Val Ser Ser Leu Arg Val
 1 5 10 15
 Met Ala Ser Ser Ser Ser His Val Thr Ser Glu Asp Met Ile Leu Phe
 20 25 30
 Leu Ile Ser Cys Gly Ile Tyr Val Pro His Phe Leu Tyr Pro Val Asp
 35 40 45
 Arg

<210> 1562
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 1562
 Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
 1 5 10 15
 Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
 20 25 30
 Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
 35 40 45
 Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser
 50 55 60
 Trp Cys Thr Pro Arg Leu Leu Ser Trp Leu Arg Asp Thr Pro Ser Pro
 65 70 75 80
 Leu Ala Ser Gly Thr Phe Pro Pro His Ser Pro Leu Gly Glu Arg Pro
 85 90 95
 Leu Leu Ser Gly Pro Pro Ser Ser Ser Gln Gln Leu Leu Val Val Gly
 100 105 110
 Pro Cys Ala Leu Arg Phe Val Gly Ala Arg His Val Lys Thr Ala Gly
 115 120 125
 Phe Arg Asp Gly Phe Ser Leu Pro Ser Ser Ser Val Phe Ser Glu Phe
 130 135 140
 Trp Lys Met Thr Leu Leu Glu Ala Pro Leu Leu Cys His Leu Ser Ser
 145 150 155 160
 Lys Ser Gly Ala Ser Ala Cys Trp
 165

<210> 1563
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1564
 Met Ala Xaa Tyr Val Gly Met Leu Arg Leu Gly Xaa Leu Cys Ala Gly
 1 5 10 15
 Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
 20 25 30
 Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Gly
 35 40 45
 Ser His Gly Leu His Ala His Arg Xaa Ala Ser Ala Thr Xaa Arg Gly
 50 55 60
 Ala Pro Lys Ser Ile Leu Thr Ala Arg Leu Trp Ala Ser Ala Trp Xaa
 65 70 75 80
 Pro Gln His Arg Gly Ser Gln Asn Glu Arg Pro Trp Ser Ser Ser Met
 85 90 95
 Lys Thr Ser Gly
 100

<210> 1565
 <211> 461
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (424)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (459)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1565

Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
1 5 10 15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
20 25 30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp
35 40 45

Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
50 55 60

Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr
65 70 75 80

Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu
85 90 95

Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala
100 105 110

Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly
115 120 125

Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Met Gln Leu Ala Thr
130 135 140

Ala Gln Ala Gly Ile Ile Leu Val Ser Val Asn Pro Ala Tyr Gln Ala
145 150 155 160

Met Glu Leu Glu Tyr Val Leu Lys Lys Val Gly Cys Lys Ala Leu Val
165 170 175

Phe Pro Lys Gln Phe Lys Thr Gln Gln Tyr Tyr Asn Val Leu Lys Gln
180 185 190

Ile Cys Pro Glu Val Glu Asn Ala Gln Pro Gly Ala Leu Lys Ser Gln
195 200 205

Arg Leu Pro Asp Leu Thr Thr Val Ile Ser Val Asp Ala Pro Leu Pro
210 215 220

Gly Thr Leu Leu Leu Asp Glu Val Val Ala Ala Gly Ser Thr Arg Gln
225 230 235 240

His Leu Asp Gln Leu Gln Tyr Asn Gln Gln Phe Leu Ser Cys His Asp
245 250 255

Pro Ile Asn Ile Gln Phe Thr Ser Gly Thr Thr Gly Ser Pro Lys Gly
260 265 270

Ala Thr Leu Ser His Tyr Asn Ile Val Asn Asn Ser Asn Ile Leu Gly

275	280	285
Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln Leu Arg Met Ile 290 295 300		
Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser Val Ala Gly Thr Met 305 310 315 320		
Met Cys Leu Met Tyr Gly Ala Thr Leu Ile Leu Ala Ser Pro Ile Phe 325 330 335		
Asn Gly Lys Lys Ala Leu Glu Ala Ile Ser Arg Glu Arg Gly Thr Phe 340 345 350		
Leu Tyr Gly Thr Pro Thr Met Phe Val Asp Ile Leu Asn Gln Pro Asp 355 360 365		
Phe Ser Ser Tyr Asp Ile Ser Thr Met Cys Gly Gly Val Ile Ala Gly 370 375 380		
Ser Pro Ala Pro Pro Glu Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn 385 390 395 400		
Met Lys Asp Leu Val Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val 405 410 415		
Thr Phe Ala His Phe Pro Glu Xaa Thr Pro Lys Pro Leu Asp Lys Glu 420 425 430		
Lys Arg Ala Glu Tyr Ala Ser His Gly Gly Glu Pro Leu Thr Lys Thr 435 440 445		
Ser Lys Ser His Leu Pro Ser Pro Ser Trp Xaa Gly Ser 450 455 460		

<210> 1566
 <211> 177
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1566
 Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala
 1 5 10 15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro
 20 25 30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr

45

Gly

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile
115 120 125

[illegible]

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe
130 135 140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys
145 150 155 160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe
165 170 175

Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
180 185 190

Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn
195 200 205

Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val
210 215 220

Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val
225 230 235 240

Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
245 250 255

<210> 1568
<211> 255
<212> PRT
<213> Homo sapiens

<400> 1568
Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala
1 5 10 15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro
20 25 30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr
35 40 45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
50 55 60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu
65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile
85 90 95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe
100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile
115 120 125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe
130 135 140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys
 145 150 155 160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe
 165 170 175

Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
 180 185 190

Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn
 195 200 205

Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val
 210 215 220

Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val
 225 230 235 240

Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
 245 250 255

<210> 1569
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1569
 Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
 1 5 10 15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
 20 25 30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Xaa Ile Pro
 35 40 45

Pro Leu Ser Pro
 50

<210> 1570
 <211> 1134
 <212> PRT
 <213> Homo sapiens

<400> 1570
 Val Leu Phe Arg Pro Gln Ala Gln Arg Pro Pro Ser Cys Val Gly Gly
 1 5 10 15

Ser Ala Val Arg Arg Trp Gln Gly Gln Pro Gln Pro Gln Arg Pro Gly
 20 25 30

Ile Cys Asp Thr Ser Asn Phe Ser Asp Tyr Ile Arg Gly Gly Ile Val
355 360 365

Ser Gln Val Lys Val Pro Lys Lys Ile Ser Phe Lys Ser Leu Val Ala
370 375 380

Ser Leu Ala Glu Pro Asp Phe Val Val Thr Asp Phe Ala Lys Phe Ser
385 390 395 400

Arg Pro Ala Gln Leu His Ile Gly Phe Gln Ala Leu His Gln Phe Cys
405 410 415

Ala Gln His Gly Arg Pro Pro Arg Pro Arg Asn Glu Glu Asp Ala Ala
420 425 430

Glu Leu Val Ala Leu Ala Gln Ala Val Asn Ala Arg Ala Leu Pro Ala
435 440 445

Val Gln Gln Asn Asn Leu Asp Glu Asp Leu Ile Arg Lys Leu Ala Tyr
450 455 460

Val Ala Ala Gly Asp Leu Ala Pro Ile Asn Ala Phe Ile Gly Gly Leu
465 470 475 480

Ala Ala Gln Glu Val Met Lys Ala Cys Ser Gly Lys Phe Met Pro Ile
485 490 495

Met Gln Trp Leu Tyr Phe Asp Ala Leu Glu Cys Leu Pro Glu Asp Lys
500 505 510

Glu Val Leu Thr Glu Asp Lys Cys Leu Gln Arg Gln Asn Arg Tyr Asp
515 520 525

Gly Gln Val Ala Val Phe Gly Ser Asp Leu Gln Glu Lys Leu Gly Lys
530 535 540

Gln Lys Tyr Phe Leu Val Gly Ala Gly Ala Ile Gly Cys Glu Leu Leu
545 550 555 560

Lys Asn Phe Ala Met Ile Gly Leu Gly Cys Gly Glu Gly Gly Glu Ile
565 570 575

Ile Val Thr Asp Met Asp Thr Ile Glu Lys Ser Asn Leu Asn Arg Gln
580 585 590

Phe Leu Phe Arg Pro Trp Asp Val Thr Lys Leu Lys Ser Asp Thr Ala
595 600 605

Ala Ala Ala Val Arg Gln Met Asn Pro His Ile Arg Val Thr Ser His
610 615 620

Gln Asn Arg Val Gly Pro Asp Thr Glu Arg Ile Tyr Asp Asp Asp Phe
625 630 635 640

Phe Gln Asn Leu Asp Gly Val Ala Asn Ala Leu Asp Asn Val Asp Ala
645 650 655

Arg Met Tyr Met Asp Arg Arg Cys Val Tyr Tyr Arg Lys Pro Leu Leu
660 665 670

Glu	Ser	Gly	Thr	Leu	Gly	Thr	Lys	Gly	Asn	Val	Gln	Val	Val	Ile	Pro	675	680	685	
Phe	Leu	Thr	Glu	Ser	Tyr	Ser	Ser	Ser	Gln	Asp	Pro	Pro	Glu	Lys	Ser	690	695	700	
Ile	Pro	Ile	Cys	Thr	Leu	Lys	Asn	Phe	Pro	Asn	Ala	Ile	Glu	His	Thr	705	710	715	720
Leu	Gln	Trp	Ala	Arg	Asp	Glu	Phe	Glu	Gly	Leu	Phe	Lys	Gln	Pro	Ala	725	730	735	
Glu	Asn	Val	Asn	Gln	Tyr	Leu	Thr	Asp	Pro	Lys	Phe	Val	Glu	Arg	Thr	740	745	750	
Leu	Arg	Leu	Ala	Gly	Thr	Gln	Pro	Leu	Glu	Val	Leu	Glu	Ala	Val	Gln	755	760	765	
Arg	Ser	Leu	Val	Leu	Gln	Arg	Pro	Gln	Thr	Trp	Ala	Asp	Cys	Val	Thr	770	775	780	
Trp	Ala	Cys	His	His	Trp	His	Thr	Gln	Tyr	Ser	Asn	Asn	Ile	Arg	Gln	785	790	795	800
Leu	Leu	His	Asn	Phe	Pro	Pro	Asp	Gln	Leu	Thr	Ser	Ser	Gly	Ala	Pro	805	810	815	
Phe	Trp	Ser	Gly	Pro	Lys	Arg	Cys	Pro	His	Pro	Leu	Thr	Phe	Asp	Val	820	825	830	
Asn	Asn	Pro	Leu	His	Leu	Asp	Tyr	Val	Met	Ala	Ala	Ala	Asn	Leu	Phe	835	840	845	
Ala	Gln	Thr	Tyr	Gly	Leu	Thr	Gly	Ser	Gln	Asp	Arg	Ala	Ala	Val	Ala	850	855	860	
Thr	Phe	Leu	Gln	Ser	Val	Gln	Val	Pro	Glu	Phe	Thr	Pro	Lys	Ser	Gly	865	870	875	880
Val	Lys	Ile	His	Val	Ser	Asp	Gln	Glu	Leu	Gln	Ser	Ala	Asn	Ala	Ser	885	890	895	
Val	Asp	Asp	Ser	Arg	Leu	Glu	Glu	Leu	Lys	Ala	Thr	Leu	Pro	Ser	Pro	900	905	910	
Asp	Lys	Leu	Pro	Gly	Phe	Lys	Met	Tyr	Pro	Ile	Asp	Phe	Glu	Lys	Asp	915	920	925	
Asp	Asp	Ser	Asn	Phe	His	Met	Asp	Phe	Ile	Val	Ala	Ala	Ser	Asn	Leu	930	935	940	
Arg	Ala	Glu	Asn	Tyr	Asp	Ile	Pro	Ser	Ala	Asp	Arg	His	Lys	Ser	Lys	945	950	955	960
Leu	Ile	Ala	Gly	Lys	Ile	Ile	Pro	Ala	Ile	Ala	Thr	Thr	Thr	Ala	Ala	965	970	975	
Val	Val	Gly	Leu	Val	Cys	Leu	Glu	Leu	Tyr	Lys	Val	Val	Gln	Gly	His	980	985	990	

Arg Gln Leu Asp Ser Tyr Lys Asn Gly Phe Leu Asn Leu Ala Leu Pro
 995 1000 1005

Phe Phe Gly Phe Ser Glu Pro Leu Ala Ala Pro Arg His Gln Tyr Tyr
 1010 1015 1020

Asn Gln Glu Trp Thr Leu Trp Asp Arg Phe Glu Val Gln Gly Leu Gln
 1025 1030 1035 1040

Pro Asn Gly Glu Glu Met Thr Leu Lys Gln Phe Leu Asp Tyr Phe Lys
 1045 1050 1055

Thr Glu His Lys Leu Glu Ile Thr Met Leu Ser Gln Gly Val Ser Met
 1060 1065 1070

Leu Tyr Ser Phe Phe Met Pro Ala Ala Lys Leu Lys Glu Arg Leu Asp
 1075 1080 1085

Gln Pro Met Thr Glu Ile Val Ser Arg Val Ser Lys Arg Lys Leu Gly
 1090 1095 1100

Arg His Val Arg Ala Leu Val Leu Glu Leu Cys Cys Asn Asp Glu Ser
 1105 1110 1115 1120

Gly Glu Asp Val Glu Val Pro Tyr Val Arg Tyr Thr Ile Arg
 1125 1130

<210> 1571
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1571
 Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
 1 5 10 15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
 20 25 30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
 35 40 45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
 50 55 60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
 65 70 75 80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
 85 90 95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
 100 105 110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
 115 120 125

[illegible]

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
1 5 10 15

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
35 40 45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
50 55 60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
65 70 75 80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
85 90 95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
100 105 110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
115 120 125

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1573

Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val
1 5 10 15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
20 25 30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu
35 40 45

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Xaa Glu
50 55 60

[illegible]

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<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Asn

<400> 1575
Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val
1 5 10 15
Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
20 25 30

[illegible][illegible][illegible]

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

```

<400> 1581
Asn Ile Phe Leu Glu Trp Ile Leu Arg Arg Ile Leu Ser Leu Trp Arg
 1               5               10               15

Gly Thr Phe Leu Met His Gly Arg Ala Gly Val Asn Arg Ile Ser Tyr
      20               25               30

Trp Pro Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser
      35               40               45

Glu Asp Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn
      50               55               60

Ser Arg Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met
      65               70               75               80

Val Gln Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys
      85               90               95

Ile Thr Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys
      100               105               110

Lys Gln Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys
      115               120               125

Lys Lys Thr
      130

```

<400> 1582

Thr	Glu	Arg	Arg	Tyr	Gln	Glu	Gln	Leu	Gly	Leu	Val	Ala	Thr	Tyr	Phe
		35					40					45			
Leu	Gly	Ile	Leu	Lys	Ala	Lys	Gly	Thr	Leu	Arg	Pro	Pro	Glu	Arg	Gln
	50					55					60				
Ala	Leu	Phe	Gly	Ser	Trp	Glu	Leu	Ile	Tyr	Gly	Ala	Ser	Gln	Glu	Leu
	65				70					75					80
Leu	Pro	Tyr	Leu	Glu	Gly	Gly	Cys	Trp	Gly	Gln	Gly	Leu	Glu	Gly	Phe
				85					90					95	
Cys	Arg	His	Leu	Glu	Leu	Tyr	Asn	Gln	Phe	Ala	Ala	Asn	Ser	Glu	Arg
			100					105					110		
Ser	Gln	Thr	Xaa	Leu	Gln	Glu	Gln	Leu	Lys	Lys	Asn	Lys	Gly	Phe	Arg
		115					120					125			
Lys	Phe	Val	Arg	Leu	Gln	Glu	Gly	Arg	Pro	Glu	Phe	Gly	Gly	Leu	Gln
	130					135					140				
Leu	Gln	Asp	Leu	Leu	Pro	Leu	Pro	Leu	Gln	Arg	Leu	Gln	Gln	Tyr	Glu
	145				150					155					160
Asn	Leu	Val	Val	Ala	Leu	Ala	Glu	Asn	Thr	Gly	Pro	Asn	Ser	Pro	Asp
				165					170					175	
His	Gln	Gln	Leu	Thr	Arg	Arg	Phe	Leu	Leu	Leu	Gly	Asn	Ala	Gly	Trp
			180					185					190		
Arg	Leu	Pro	Leu	Leu	Tyr	Ser	Phe	Leu	Ile	Leu	Thr	Ser	Asn	Asn	Val
		195					200					205			
Trp	Tyr	Asp	Pro	Ile	Phe	His									
	210					215									

<210> 1589
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1589
 Glu Ile Leu Leu Lys Lys Lys Asn Gln Glu Thr Lys Ser Asn Pro Thr
 1 5 10 15
 Lys Pro Gln Met Asn Gln Pro Leu Thr Gln Met Arg Gly Phe Gly Thr
 20 25 30
 Asp Lys Leu Cys Ala Val Ser Met Ala Arg His Leu Ser Arg Leu Gln
 35 40 45
 Leu Cys Lys Cys Gly Tyr Phe Tyr Val Val Tyr Ser Phe Tyr His Leu
 50 55 60
 Phe Phe His Trp Ile
 65

<210> 1590
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1590
 Met Ser Gly Met Thr Leu Ser Ser Thr Asp Met Tyr Thr Val Ser Leu
 1 5 10 15
 Leu Leu Cys Leu Xaa Phe Lys Lys Ser Asp Pro Asp Pro Gly Pro Phe
 20 25 30
 Gln Asn Asn Leu Phe His Asn His Gly Thr Gln Ser Gln Ser Cys Met
 35 40 45
 Gly Ser Lys Val Gly Asp Val Ile Pro Gly Ala Ala Arg Leu Ile Ser
 50 55 60
 Glu Thr Ala Gln Arg Val His Thr Ile Gly Gln Lys Gln Lys Asn Asp
 65 70 75 80
 Gln His Leu Arg Arg Val Gln Ala Leu Leu Ser Gly Arg Gln Ala Lys
 85 90 95
 Gly Leu Thr Ser Gly Arg Trp Xaa Leu Arg Gln Gly Trp Leu Leu Val
 100 105 110
 Val Pro Pro His Gly Glu Pro Arg Pro Arg Met Phe Phe Leu Phe Thr
 115 120 125
 Asp Val Leu Leu Met Ala Lys Pro Arg Pro Pro Leu His Leu Leu Arg
 130 135 140
 Ser Gly Thr Phe Ala Cys Lys Ala Leu Tyr Pro Met Ala Gln Cys His
 145 150 155 160
 Leu Ser Arg Val Phe Gly His Ser Gly Gly Pro Cys Gly Gly Leu Leu
 165 170 175
 Ser Leu Ser Phe Pro Arg Glu Lys Leu Leu Leu Met Ser Thr Asp Gln
 180 185 190
 Glu Glu Leu Ser Arg Trp Tyr His Ser Leu Thr Trp Ala Ile Ser Ser
 195 200 205
 Gln Lys Asn
 210

Figure 1 consists of 12 bar charts, labeled (a) through (l), arranged in a 6x2 grid. Each chart shows the percentage of total protein in various fractions (A, B, C, D, E, F, G, H, I, J, K, L) for different protein types (A, B, C, D, E, F, G, H, I, J, K, L) across different conditions (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12). The y-axis represents the percentage of total protein, and the x-axis represents the fraction. The legend indicates that the bars represent the percentage of total protein in each fraction for each protein type.

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<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (334)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (348)
<223> Xaa equals any of the naturally occurring L-amino acids
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Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
20 25 30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
35 40 45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
50 55 60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
65 70 75 80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys

95

Ser	Gln	Gly	Tyr	Asp	Trp	Ser	Glu	Pro	Phe	Ser	Pro	Gly	Glu	Asp	Glu	
			100					105						110		
Phe	Lys	Cys	Pro	Ile	Lys	Glu	Glu	Ile	Ala	Leu	Thr	Ser	Gly	Glu	Trp	
		115					120					125				
Glu	Val	Leu	Ala	Arg	His	Gly	Ser	Lys	Ile	Trp	Val	Asn	Glu	Glu	Thr	
		130				135					140					
Lys	Leu	Val	Tyr	Phe	Gln	Gly	Thr	Lys	Asp	Thr	Pro	Leu	Glu	His	His	
145					150					155					160	
Leu	Tyr	Val	Val	Ser	Tyr	Glu	Ala	Ala	Gly	Glu	Ile	Val	Arg	Leu	Thr	
				165					170					175		
Thr	Pro	Gly	Phe	Ser	His	Xaa	Cys	Ser	Met	Ser	Gln	Asn	Phe	Xaa	Xaa	
			180					185					190			
Phe	Val	Ser	His	Ile	Thr	Ala	Gln	Val	Ala	Ala	Ala	Ser	Ala	Gly	Asn	
		195					200					205				
Gln	Ala	Gly	Gly	Thr	Glu	Trp	Pro	Ala	Gly	Pro	Ser	Glu	Ala	Leu	Cys	
		210				215					220					
Pro	Ala	Gln	Arg	Trp	Pro	Ala	Pro	Arg	Ser	Arg	Cys	Leu	His	Arg	Pro	
225					230					235					240	
Asp	Ala	Phe	Tyr	Pro	Phe	Leu	Asn	Ala	Leu	Gly	Phe	Tyr	Val	Arg	Cys	
				245					250					255		
Phe	Leu	Val	Ala	Glu	Thr	Glu	Arg	Trp	Trp	Ser	Arg	Ala	Ser	Pro	Ser	
			260					265					270			
Ser	Pro	Arg	Leu	Leu	Gly	Gly	Gly	Gly	His	Thr	Leu	Met	Gly	Thr	Gly	
		275				280						285				
Glu	Ala	Arg	Arg	Asp	Ser	Glu	Glu	Arg	Ala	Ala	Phe	Arg	Leu	Gly	Leu	
		290				295					300					
Pro	Val	Thr	Ser	Gln	Ser	Pro	Gly	Pro	Ala	Ser	His	Arg	Pro	Gln	His	
305					310					315				320		
Pro	Ser	Met	Gln	Leu	Pro	Val	Pro	Pro	Gly	Gln	Pro	Pro	Xaa	Leu	Asp	
				325					330					335		
Val	Cys	Val	Leu	Phe	Gly	Gly	Xaa	Xaa	Phe	Ile	Xaa	Ile				
			340					345								

<210> 1592

<211> 144

<212> PRT

<213> Homo sapiens

<400> 1592

Ala Pro Phe Leu Pro Lys Pro Glu Gln Arg Val Met Arg Ala Pro Gln
1 5 10 15

Glu Lys Arg Pro Gly Pro Ala Gly Gly Thr Thr Cys Gly Gln Pro Ser
 20 25 30
 Cys Pro Gln Ala Phe Arg Gln Ala Leu Lys Arg Thr Glu Leu Pro Arg
 35 40 45
 Ser Ala Gly Gln Trp Arg Leu Ser Pro Pro Gln Pro Ser Arg Pro Ala
 50 55 60
 Thr Cys Val Cys Leu Thr Arg Thr His Gln Gly Phe Arg Gly Trp Glu
 65 70 75 80
 Leu Asn His Pro His Leu Arg Val Ile Phe Pro Ser Pro Leu Pro Ser
 85 90 95
 Pro Pro Arg Ala Leu Pro Gly Ala Gly Lys Lys Lys Ser Lys Lys Lys
 100 105 110
 Arg Lys Lys Lys Lys Arg Asn Lys Pro Pro Leu His Ile Met Glu Arg
 115 120 125
 Lys Tyr Phe Cys Arg Phe Leu Phe Phe Tyr Asn Tyr Ala Trp Lys Lys
 130 135 140

<210> 1593

<211> 497

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1593

Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
 1 5 10 15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
 20 25 30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
 35 40 45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
 50 55 60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
 65 70 75 80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
 85 90 95

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu

100										105					110						
Phe	Lys	Cys	Pro	Ile	Lys	Glu	Glu	Ile	Ala	Leu	Thr	Ser	Gly	Glu	Trp						
		115					120					125									
Glu	Val	Leu	Ala	Arg	His	Gly	Ser	Lys	Ile	Trp	Val	Asn	Glu	Glu	Thr						
	130					135					140										
Lys	Leu	Val	Tyr	Phe	Gln	Gly	Thr	Lys	Asp	Thr	Pro	Leu	Glu	His	His						
145					150					155					160						
Leu	Tyr	Val	Val	Ser	Tyr	Glu	Ala	Ala	Gly	Glu	Ile	Val	Arg	Leu	Thr						
				165					170					175							
Thr	Pro	Gly	Phe	Ser	His	Xaa	Cys	Ser	Met	Ser	Gln	Asn	Phe	Asp	Met						
			180					185					190								
Phe	Val	Ser	His	Tyr	Ser	Ser	Val	Ser	Thr	Pro	Pro	Cys	Val	His	Val						
	195						200					205									
Tyr	Lys	Leu	Ser	Gly	Pro	Asp	Asp	Asp	Pro	Leu	His	Lys	Gln	Pro	Arg						
	210					215					220										
Phe	Trp	Ala	Ser	Met	Met	Glu	Ala	Ala	Ser	Cys	Pro	Pro	Asp	Tyr	Val						
225					230					235					240						
Pro	Pro	Glu	Ile	Phe	His	Phe	His	Thr	Arg	Ser	Asp	Val	Arg	Leu	Tyr						
				245					250					255							
Gly	Met	Ile	Tyr	Lys	Pro	His	Ala	Leu	Gln	Pro	Gly	Lys	Lys	His	Pro						
			260					265					270								
Thr	Val	Leu	Phe	Val	Tyr	Gly	Gly	Pro	Gln	Val	Gln	Leu	Val	Asn	Asn						
	275						280					285									
Ser	Phe	Lys	Gly	Ile	Lys	Tyr	Leu	Arg	Leu	Asn	Thr	Leu	Ala	Ser	Leu						
	290					295				300											
Gly	Tyr	Ala	Val	Val	Val	Ile	Asp	Gly	Arg	Gly	Ser	Cys	Gln	Arg	Gly						
305					310					315					320						
Leu	Arg	Phe	Glu	Gly	Ala	Leu	Lys	Asn	Gln	Met	Gly	Gln	Val	Glu	Ile						
				325					330					335							
Glu	Asp	Gln	Val	Glu	Gly	Leu	Gln	Phe	Val	Ala	Glu	Lys	Tyr	Gly	Phe						
			340					345					350								
Ile	Asp	Leu	Ser	Arg	Val	Ala	Ile	His	Gly	Trp	Ser	Tyr	Gly	Gly	Phe						
	355						360					365									
Leu	Ser	Leu	Met	Gly	Leu	Ile	His	Lys	Pro	Gln	Val	Phe	Lys	Val	Ala						
	370					375															

Figure 1 Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard diet and water, while the experimental group received a diet supplemented with 0.5% of the test substance. The subjects were divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet and water, while the experimental subgroup received a diet supplemented with 0.5% of the test substance. The subjects were divided into two subgroups: the control subgroup and the experimental subgroup. The control subgroup received a standard diet and water, while the experimental subgroup received a diet supplemented with 0.5% of the test substance.

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile
1 5 10 15

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn
35 40 45

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly
65 70 75 80

Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro
85 90 95

Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His
100 105 110

Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu
115 120 125

Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Arg Leu
130 135 140

Ser Ala Ser Phe Asn Ala Ser Pro Gly Ala Ile Ser Ala Lys Thr Lys
145 150 155 160

Phe Ser Arg Lys Gln Ile Phe Gln Glu Leu Gln Ile Cys Pro Ser Arg
165 170 175

His Gly Gln Ile
180

```
<210> 1596
<211> 240
<212> PRT
<213> Homo sapiens
```

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile
1 5 10 15

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu
20 25 30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn

35	40	45
Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser		
50	55	60
Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly		
65	70	75
Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro		
	85	90
Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His		
	100	105
Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu		
	115	120
Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser		
	130	135
Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser		
	145	150
Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp		
	165	170
Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala		
	180	185
Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu		
	195	200
Leu Gly Glu Gly Phe Ser Asp Leu Phe Leu Thr Asp Gly Arg Ile Pro		
	210	215
Ala Ser Tyr Glu Thr Leu His Gly Gly Val Gln Gly Pro Gly Thr Leu		
	225	230

<210> 1597

<211> 447

<212> PRT

<213> Homo sapiens

<400> 1597

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile		
1	5	10
Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu		
	20	25
Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn		
	35	40
Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser		
	50	55

Arg	Gln	Ile	His	Lys	Gly	Asp	Ile	Thr	Leu	Val	Pro	Thr	Ile	Asn	Gly	
65					70					75					80	
Thr	Leu	Pro	Ile	Arg	Ser	His	His	Arg	Ser	Ser	Pro	Ser	Ser	Ser	Pro	
				85					90					95		
Thr	Leu	Glu	Arg	Gly	Gln	Met	Gly	Ser	Arg	Gln	Ser	His	Asn	Ser	His	
			100					105					110			
Gln	Ser	Leu	Asn	Ser	Leu	Val	Thr	Ile	Ser	Ser	Asn	His	Val	Pro	Glu	
		115					120					125				
Asn	Phe	Ser	Leu	Glu	Leu	Thr	His	Ala	Thr	Pro	Ala	Val	Glu	Val	Ser	
	130					135					140					
Gln	Leu	Leu	Ser	Met	Leu	His	Gln	Gly	Gln	Tyr	Gln	Pro	Arg	Pro	Ser	
145					150					155					160	
Phe	Arg	Gly	Asn	Lys	Tyr	Ser	Arg	Ser	Tyr	Arg	Tyr	Ala	Leu	Gln	Asp	
				165					170					175		
Met	Asp	Lys	Phe	Ser	Leu	Lys	Asp	Ser	Gly	Arg	Gly	Asp	Ser	Glu	Ala	
			180					185					190			
Gly	Asp	Ser	Asp	Tyr	Asp	Leu	Gly	Arg	Asp	Ser	Pro	Ile	Asp	Arg	Leu	
		195					200					205				
Leu	Gly	Glu	Gly	Phe	Ser	Asp	Leu	Phe	Leu	Thr	Asp	Gly	Arg	Ile	Pro	
	210					215					220					
Ala	Ala	Met	Arg	Leu	Cys	Thr	Glu	Glu	Cys	Arg	Val	Leu	Gly	His	Ser	
225					230					235					240	
Asp	Gln	Cys	Trp	Met	Pro	Pro	Leu	Pro	Ser	Pro	Ser	Ser	Asp	Tyr	Arg	
				245					250					255		
Ser	Asn	Met	Phe	Ile	Pro	Gly	Glu	Glu	Phe	Pro	Thr	Gln	Pro	Gln	Gln	
			260					265					270			
Gln	His	Pro	His	Gln	Ser	Leu	Glu	Asp	Asp	Ala	Gln	Pro	Ala	Asp	Ser	
		275					280					285				
Gly	Glu	Lys	Lys	Lys	Ser	Phe	Ser	Thr	Phe	Gly	Lys	Asp	Ser	Pro	Asn	
	290					295					300					
Asp	Glu	Asp	Thr	Gly	Asp	Thr	Ser	Thr	Ser	Ser	Leu	Leu	Ser	Glu	Met	
305					310					315				320		
Ser	Ser	Val	Phe	Gln	Arg	Leu	Leu	Pro	Pro	Ser	Leu	Asp	Thr	Tyr	Ser	
				325					330					335		
Glu	Cys	Ser	Glu	Val	Asp	Arg	Ser	Asn	Ser	Leu	Glu	Arg	Arg	Lys	Gly	
			340					345					350			
Pro	Leu	Pro	Ala	Lys	Thr	Val	Gly	Tyr	Pro	Gln	Gly	Val	Ala	Ala	Trp	
		355					360					365				
Ala	Ala	Ser	Thr	His	Phe	Gln	Asn	Pro	Thr	Thr	Asn	Cys	Gly	Pro	Pro	
	370					375					380					

Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp
20 25 30

Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu
35 40 45

Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala
50 55 60

Asn Tyr Pro Ser Leu Leu Leu Gly Asp Gly Arg His Asp His Leu Gly
65 70 75 80

Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly
85 90 95

Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn
100 105 110

His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu
115 120 125

Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro
130 135 140

Ala Val Thr Glu Lys Thr Arg His
145 150

<210> 1600
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1600
Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
1 5 10 15

Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
20 25 30

Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
35 40 45

Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
50 55 60

Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
65 70 75 80

Ser Arg

<210> 1601
<211> 306
<212> PRT
<213> Homo sapiens

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
130 135 140

Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
145 150 155 160

Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
165 170 175

Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
180 185 190

Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
195 200 205

Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
210 215 220

Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro
225 230 235 240

Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys
245 250 255

Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln
260 265 270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro
275 280 285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys
290 295 300

Glu Lys
305

<210> 1602
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1602
Met Glu Asp Arg Leu Leu Leu Ile Leu Val Phe Pro Leu Leu Trp Phe
1 5 10 15
Pro Val Ala Val Phe Gln Leu Val Leu Leu Leu Pro Phe Leu Leu Ile
20 25 30

His Ser Leu Asn Cys Leu Glu Trp Arg His Leu Phe Ser Ala Tyr Arg
 35 40 45
 Val His Ile Leu Ala Trp Leu Ala Tyr Pro Cys Phe Cys Val Ser Leu
 50 55 60
 Arg Val Arg His Cys Ile Glu Leu Phe Ile Gln Ile Val Leu Ser Leu
 65 70 75 80
 Pro Gln Cys Cys Gly Ile Gly Gly Val Pro Ile Leu
 85 90

<210> 1603
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603
 Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu
 1 5 10 15
 Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr
 20 25 30
 Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro
 35 40 45
 Gly His Trp Val Glu Glu Thr Val Leu Gly Xaa Thr Arg Arg Glu Gly
 50 55 60
 Pro Gly Leu Phe Pro
 65

<210> 1604
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1604
 Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu
 1 5 10 15
 Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr
 20 25 30
 Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro
 35 40 45
 Gly His Trp Val Glu Glu Thr Val Leu Gly Arg Ser Arg Arg Glu Gly
 50 55 60

Pro Gly Leu Phe Pro
65

<210> 1605

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1605

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
1 5 10 15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
20 25 30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
35 40 45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
50 55 60

Asp Arg Xaa Arg Gln Gly Phe Ser Thr Xaa Tyr Lys
65 70 75

<210> 1606

<211> 201

<212> PRT

<213> Homo sapiens

<400> 1606

Met Val Ala Met Val Glu Val Gln Leu Asp Ala Asp His Asp Tyr Pro
1 5 10 15

Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala
20 25 30

Val His Leu Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile
35 40 45

Glu Ala Val Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro
50 55 60

His Glu Arg Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr
65 70 75 80

Val Ile Gly Thr Leu Leu Phe Leu Ala Glu Val Val Leu Leu Cys Trp

				85					90					95	
Val	Lys	Phe	Leu	Pro	Leu	Lys	Lys	Gln	Pro	Gly	Gln	Pro	Arg	Pro	Thr
			100					105					110		
Ser	Lys	Pro	Pro	Ala	Ser	Gly	Ala	Ala	Ala	Asn	Val	Ser	Thr	Ser	Gly
		115					120					125			
Ile	Thr	Pro	Gly	Gln	Ala	Ala	Ala	Ile	Ala	Ser	Thr	Thr	Ile	Met	Val
		130					135					140			
Pro	Phe	Gly	Leu	Ile	Phe	Ile	Val	Phe	Ala	Val	His	Phe	Tyr	Arg	Ser
145					150					155					160
Leu	Val	Ser	His	Lys	Thr	Asp	Arg	Gln	Phe	Gln	Glu	Leu	Asn	Glu	Leu
				165					170					175	
Ala	Glu	Phe	Ala	Arg	Leu	Gln	Asp	Gln	Leu	Asp	His	Arg	Gly	Asp	His
			180					185					190		
Pro	Leu	Thr	Pro	Gly	Ser	His	Tyr	Ala							
		195					200								

<210> 1607
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 1607
 Met Ser Ala Cys Thr Ala Thr Ser Ser Trp Pro Gly Pro Ser Pro Pro
 1 5 10 15
 Ser Ser Ala Arg Cys Ser Ser
 20

<210> 1608
 <211> 219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (212)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608
 Tyr Phe Ser Val Gly Gln Arg Gln Cys Trp Ile Ser Phe Thr Leu Thr
 1 5 10 15
 Ala Gln Asn Ser Ile Cys Cys Leu Pro Cys Asn Leu Arg Thr Asn Thr
 20 25 30

Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met
85 90 95

Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu
100 105 110

Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val
115 120 125

Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe
130 135 140

Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr
145 150 155 160

Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala
165 170 175

Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg
180 185 190

Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu
195 200 205

Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala
210 215 220

Glu Glu Thr Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe Gly
225 230 235 240

Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Pro
245 250 255

Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp
260 265

<210> 1610
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<210> 1612
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1612
 Met Phe Arg Arg Leu Ala Ser Val Ala Ser Lys Leu Lys Glu Phe Ile
 1 5 10 15
 Gly Asn Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu
 20 25 30
 Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe
 35 40 45
 Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe
 50 55 60
 Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr
 65 70 75 80
 Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln
 85 90 95
 Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu
 100 105 110
 Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro
 115 120 125

<210> 1613
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1613
 Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser
 1 5 10 15
 Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val
 20 25 30
 Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro
 35 40 45
 Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly
 50 55 60
 His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln Glu Ala
 65 70 75 80
 Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu Glu Phe
 85 90 95
 Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro
 100 105